XXM 216

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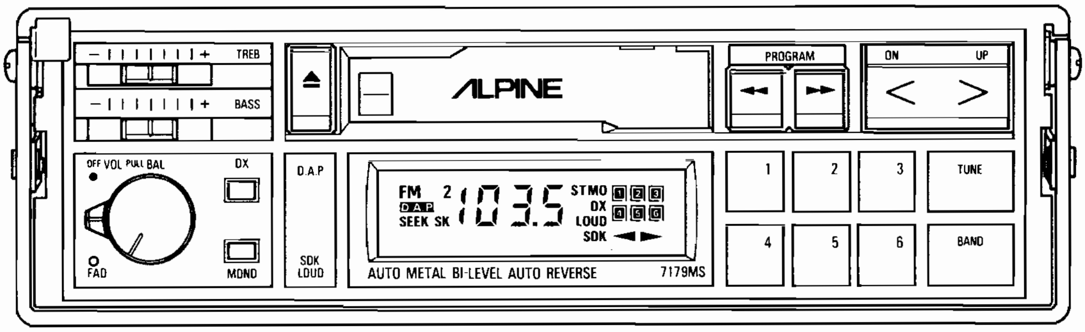
# ALPINE SERVICE MANUAL

# Digital Tuner Cassette

- The model described in this manual is developed from Model 7179M/L/E.
  This manual contains only the revised description from the service manual of 7179M/L/E.
  Refer to the service manual of 7179M/L/E (68P10537W02) for the description not mentioned in this manual.
- For the cassette deck mechanism parts (GT75L010) of this model, refer to the GT Series Service Manual (Part No. 68P92539F03).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LOUD
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SEEK SK
103.5
STMO
DX
LOUD
SDK
AUTO METAL BI-LEVEL AUTO REVERSE
7179MS
1
2
3
TUNE
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5
6
BAND

# 7179MS/LS/ES

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# Specifications

## FM RADIO

| | |
|---|---|
| Intermediate Frequency | 10.7±0.1MHz |
| Frequency Range | 87.5 to 108MHz |
| Usable Sensitivity (Stereo at 98.1MHz) | 19.2dBf (7179MS/LS Models Only) |
| | 17.2dBf (7179ES Model Only) |
| Limiting Sensitivity (98.1MHz) | 14.2±5dBf (7179MS/LS Models Only) |
| | 19.2dBf (7179ES Model Only) |
| S/N Ratio (Stereo 60dB μ 98.1MHz) | 50dB |
| Image Rejection (at 106.1MHz) | 40dB |
| IF Rejection (at 90.1MHz) | 60dB |
| Distortion (Input 1V at 98.1MHz) | 1% |
| Frequency Response (Ref. 400Hz) | 80Hz : 0±3dB (7179ES Model Only) |
| | 100Hz : 0±3dB (7179MS/LS Models Only) |
| | 10kHz : −12±3dB |
| Stereo Separation (at 1,000Hz) | 25dB (7179MS/LS Models Only) |
| | 20dB (7179ES Model Only) |
| SK Sensitivity (at 98.1MHz) | 25dBf (7179MS Model Only) |

## AM RADIO (7179ES Model Only)

| | |
|---|---|
| Intermediate Frequency | 450kHz |
| Frequency Range | 531 to 1,602kHz |
| Sensitivity 20dB S/N (at 999kHz) | 45.2dBf |
| S/N Ratio (at 999kHz) | 44dB |
| Image Rejection (at 1,404kHz) | 44dB |
| IF Rejection (at 603kHz) | 60dB |
| Distortion (at 999kHz) | 2% |
| Frequency Resopnse | 100Hz : −3±5dB |
| | 4kHz : −12±5dB |

## MW RADIO (7179MS/LS Models Only)

| | |
|---|---|
| Intermediate Frequency | 450±5kHz |
| Frequency Range | 531 to 1,602kHz |
| Sensitivity 20dB S/N (at 999kHz) | 45.2dBf |
| S/N Ratio (at 999kHz) | 44dB |
| Image Rejection (at 1,404kHz) | 45dB |
| IF Rejection (at 603kHz) | 60dB |
| Distortion (at 999kHz) | 1% |
| Frequency Response | 100Hz : −3±3dB |
| | 4kHz : −12±6dB |

## LW RADIO (7179MS/LS Models Only)

| | |
|---|---|
| Intermediate Frequency | 450±5kHz |
| Frequency Range | 153 to 281kHz |
| Sensitivity 20dB S/N (at 216kHz) | 48.2dBf |
| S/N Ratio (at 216kHz) | 40dB |
| Image Rejection (at 270kHz) | 40dB |
| IF Rejection (at 216kHz) | 50dB |
| Distortion (at 400kHz) | 1.5% |
| Frequency Response | −3±3dB (100Hz) |
| | −12±6dB (4kHz) |

## TAPE PLAYER

| | |
|---|---|
| Tape Speed (MTT-111) | 4.76cm/sec. +3% to −1% |
| Wow & Flutter (JIS, WRMS/MTT-111) | 0.25% |
| S/N Ratio (MTT-112) | 50dB (7179MS/LS Models Only) |
| | 52dB (7179ES Model Only) |
| Distortion (MTT-118) | 2% |
| Frequency Response (Ref. 1kHz, −3dB, MTT-256) | −3dB |
| (Ref. 1kHz, −3dB, MTT-356) | −3dB |
| Separation (MTT-141) | 30dB |
| Crosstalk (MTT-121) | 45dB |
| FF & RWD Time (C-60) | 100 sec. |

## GENERAL

| | |
|---|---|
| Load Impedance | 4 ohms (Speaker Out) |
| Power Supply | 14.4V DC |
| Power-Output (10% T.H.D) | 400Hz : 3.5W/ch (7179ES/MS Models Only) |
| | 1kHz : 3.5W/ch (7179LS Model Only) |
| Pre-Output Voltage | 1,200mV±3dB (7179MS/LS Models Only) |
| | 1.2V (7179ES Model Only) |
| Chassis Dimensions | 178 (W) ×50 (H) ×160 (D) mm (7179LS/MS Models Only) |
| | 178 (W) ×50 (H) ×153 (D) mm (7179ES Model Only) |
| Nose Dimensions | 176 (W) ×50 (H) ×11 (D) mm (7179MS/LS Models Only) |
| | 171 (W) ×48 (H) ×15mm (7179ES Model Only) |
| Semiconductors | 8 IC's, 36 Transistors, 41 Diodes, 12 Zener Diodes (7179ES Model Only) |
| | 11 IC's, 46 Transistors, 50 Diodes, 13 Zener Diodes (7179MS Model Only) |
| | 8 IC's, 34 Transistors, 40 Diodes, 12 Zener Diodes (7179LS Model Only) |
| Weight | 1.7kg (7179MS/LS Models Only) |
| | 1.8kg (7179ES Model Only) |

**NOTE :** Due to continuing product improvement, specifications and designs are subject to change without notice.

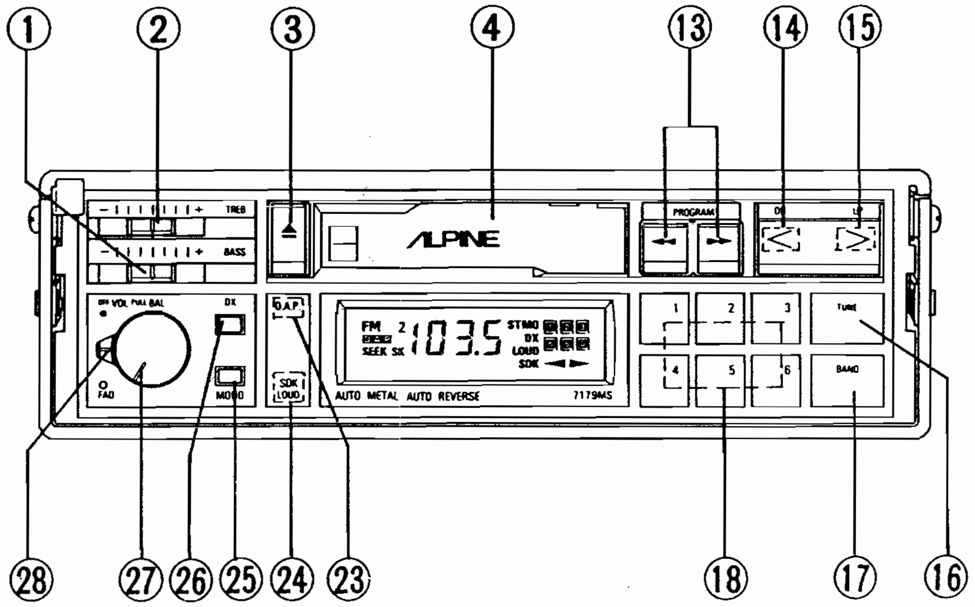
# FEATURES

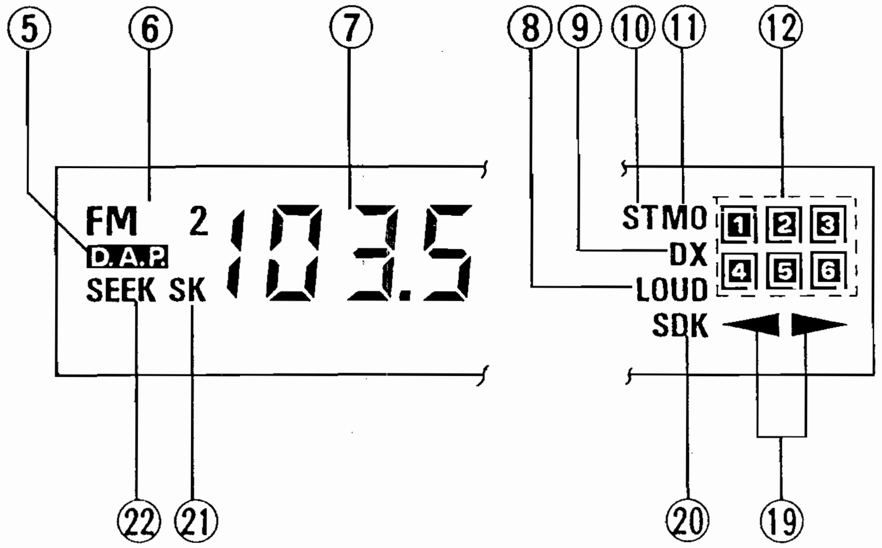
**[7179MS model only]**

- **FULL FRONT DIN™**
- **T-10 II TUNER**
  Alpine's premier tuner — utilizes a number of innovations to ensure stable, noise-free FM reception in both strong and weak signal areas. A double balanced mixer increases headroom. Dual gate MOSFETs increase signal-to-noise performance by reducing intermodulation distortion. The high-cut, soft-mute and blend circuits combine to provide optimum reception of weak signals. An engine noise suppressor circuit eliminates pulse noise from the car's ignition system, as well as from other cars.
- **GT MECHANISM**
  This Alpine electronic mechanism ensures stable tape speed, reduces wow & flutter and provides extended high frequencies up to 16 kHz.
- **QUICK RELEASE BRACKET (Q.R.B.)**
  Alpine's exclusive QRB design allows for easy removal of the 7179MS, while still maintaining memory backup. The 7179MS may then be hidden elsewhere in the car or carried with the owner for theft prevention. This bracket also provides for easy re-installation of the unit.
- **TAPE DIRECTION INDICATOR**
- **DUST-GUARD CASSETTE DOOR**
  Closes completely after insertion of the cassette in order to protect the internal mechanism.
- **D.A.P. (DIRECT ACCESS PRESET)**
- **VOLUME CONTROL WITH 36 CLICK DETENTS**
- **30 STATION PRESETS**
  FM1: 6, FM2: 6, MW: 6, LW: 6, D.A.P.: 6
- **LOCAL/DISTANCE SWITCH**
- **AUTOMATIC METAL TAPE SELECTOR**
  When a metal cassette tape is inserted, the tape mechanism automatically adjusts to metal tape equalization.
- **6 WATTS PER CHANNEL OUTPUT POWER**
- **LOUDNESS CONTROL AND INDICATOR**
- **POWER FADER**
- **PLL FREQUENCY SYNTHESIZER**
- **STEREO/MONAURAL SWITCH**
- **STEREO [ST] INDICATOR**
- **FADER CONTROL**
  To shift the balance of sound to the front or rear speakers. When using front speakers only, this control must be left fully counterclockwise.

# CONTROLS AND INDICATORS

**[7179MS model only]**





# CONTROLS AND INDICATORS

① **BASS Control**
② **TREBle Control**
③ **EJECT Switch**
④ **Cassette Loading Slot**
⑤ **D.A.P. (Direct Access Preset) Indicator**
⑥ **Radio Band Indicator**
⑦ **Frequency Indicator**
⑧ **LOUDness Indicator**
⑨ **DX (Local/Distance) Indicator**
⑩ **FM Stereo Reception Indicator (ST)**
⑪ **Monaural Indicator (MO)**
⑫ **Preset Address Indicators**
⑬ **PROGRAM/FF & REW Switches**
⑭ **Tuning (DN) Switch**
⑮ **Tuning (UP) Switch**
⑯ **TUNE Switch**
⑰ **BAND Select Switch**
⑱ **Station Preset Switches**
⑲ **Tape Direction Indicator**
⑳ **SDK Indicator**
㉑ **SK Indicator**
㉒ **SEEK Tuning Indicator**
㉓ **D.A.P. (Direct Access Preset) Switch**
㉔ **SDK/LOUDness** Switch**
㉕ **Monaural Switch (MONO)**
㉖ **DX (Local/Distance) Switch**
㉗ **Power on/OFF Switch/VOLume Control/BALance Control (Pull)**
㉘ **FADer Control**

** For Loudness control, keep pressing this switch for 3 seconds or longer.

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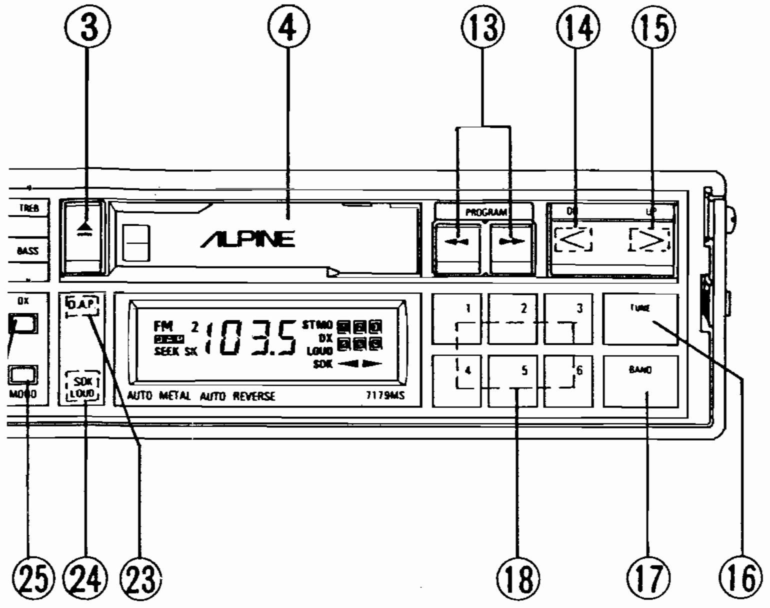

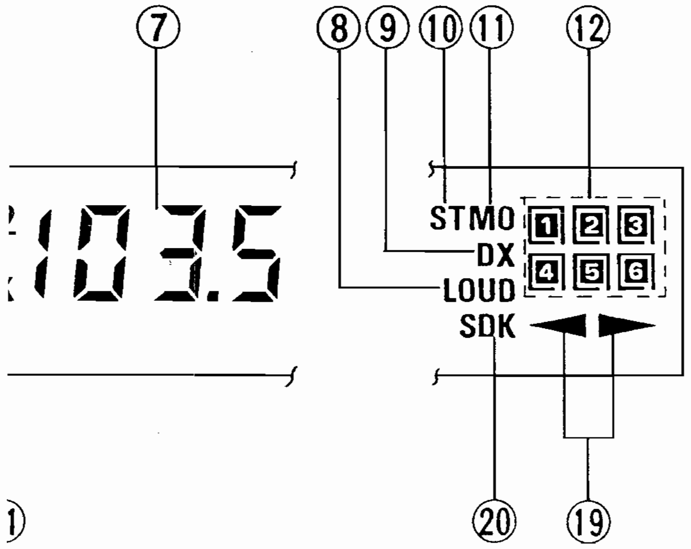

# CONTROLS AND INDICATORS

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** For Loudness control, keep pressing this switch for 3 seconds or longer.

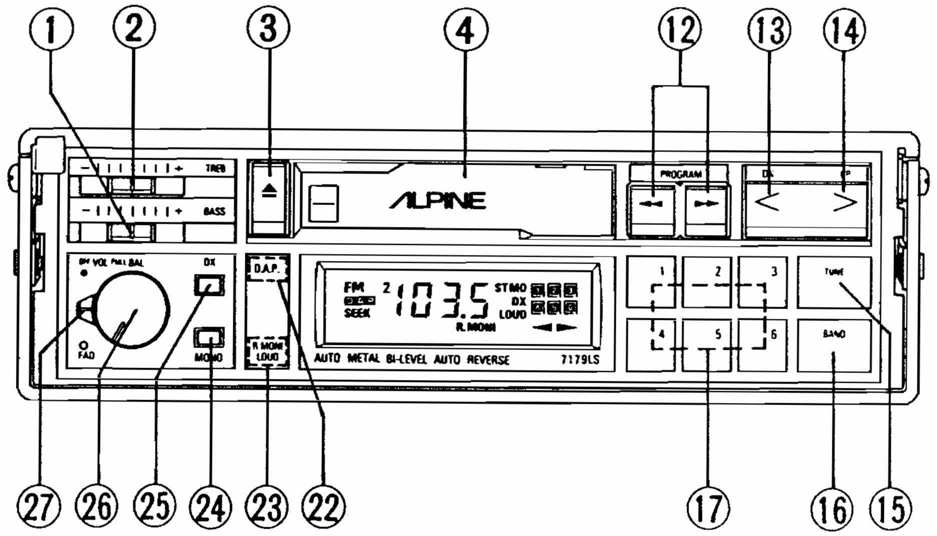
# FEATURES

**[7179LS model only]**

- **FULL FRONT DIN™**
- **T-10 II TUNER**
  Alpine's premier tuner — utilizes a number of innovations to ensure stable, noise-free FM reception in both strong and weak signal areas. A double balanced mixer increases headroom. Dual gate MOSFETs increase signal-to-noise performance by reducing intermodulation distortion. The high-cut, soft-mute and blend circuits combine to provide optimum reception of weak signals. An engine noise suppressor circuit eliminates pulse noise from the car's ignition system, as well as from other cars.
- **GT MECHANISM**
  This Alpine electronic mechanism ensures stable tape speed, reduces wow & flutter and provides extended high frequencies up to 16 kHz.
- **QUICK RELEASE BRACKET (Q.R.B.)**
  Alpine's exclusive QRB design allows for easy removal of the 7179LS, while still maintaining memory backup. The 7179LS may then be hidden elsewhere in the car or carried with the owner for theft prevention. This bracket also provides for easy re-installation of the unit.
- **TAPE DIRECTION INDICATOR**
- **DUST-GUARD CASSETTE DOOR**
  Closes completely after insertion of the cassette in order to protect the internal mechanism.
- **D.A.P. (DIRECT ACCESS PRESET)**
- **RADIO MONITOR**
  The radio plays in FF and REWIND.
- **VOLUME CONTROL WITH 36 CLICK DETENTS**
- **30 STATION PRESETS**
  FM1: 6, FM2: 6, MW: 6, LW: 6, D.A.P.: 6
- **LOCAL/DISTANCE SWITCH**
- **AUTOMATIC METAL TAPE SELECTOR**
  When a metal cassette tape is inserted, the tape mechanism automatically adjusts to metal tape equalization.
- **6 WATTS PER CHANNEL OUTPUT POWER**
- **LOUDNESS CONTROL AND INDICATOR**

## CONTROLS AND INDICATORS

**[7179LS model only]**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TREB
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ALPINE
PROGRAM
D.A.P.
DX
MONO
FAD
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AUTO METAL BI-LEVEL AUTO REVERSE 7179LS
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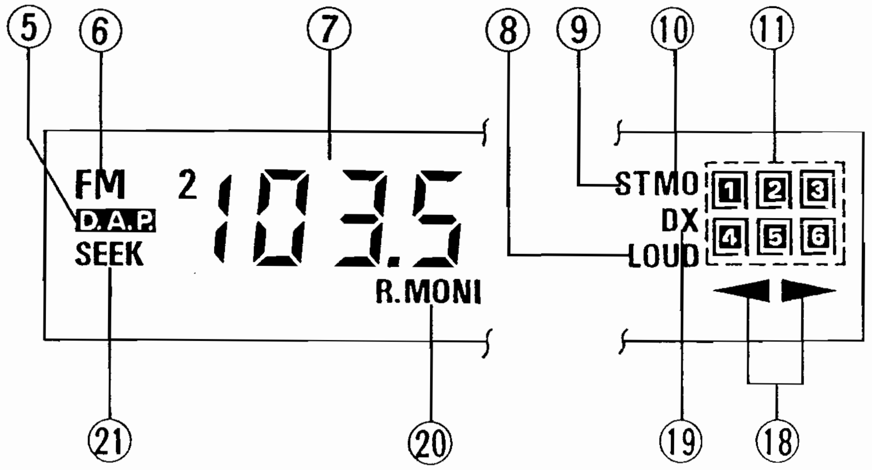

## CONTROLS AND INDICATORS

① **BASS Control**
② **TREBle Control**
③ **EJECT Switch**
④ **Cassette Loading Slot**
⑤ **D.A.P. (Direct Access Preset) Indicator**
⑥ **Radio Band Indicator**
⑦ **Frequency Indicator**
⑧ **LOUDness Indicator**
⑨ **DX (Local/Distance) Indicator**
⑩ **FM Stereo Reception Indicator (ST)**
⑪ **Monaural Indicator (MO)**
⑫ **Preset Address Indicators**
⑬ **PROGRAM/FF & REW Switches**
⑭ **Tuning (DN) Switch**
⑮ **Tuning (UP) Switch**
⑯ **TUNE Switch**
⑰ **BAND Select Switch**
⑱ **Station Preset Switches**
⑲ **Tape Direction Indicator**
⑳ **SDK Indicator**
㉑ **SK Indicator**
㉒ **SEEK Tuning Indicator**
㉓ **D.A.P. (Direct Access Preset) Switch**
㉔ **SDK/LOUDness** Switch**
㉕ **Monaural Switch (MONO)**
㉖ **DX (Local/Distance) Switch**
㉗ **Power on/OFF Switch/VOLume Control/BALance Control (Pull)**
㉘ **FADer Control**

** For Loudness control, keep pressing this switch for 3 seconds or longer.

## FEATURES

**[7179ES model only]**

- **FULL FRONT DIN™:**
- **QUICK RELEASE BRACKET (Q.R.B.):**
  Alpine's exclusive QRB design allows for easy removal of the 7179ES while still maintaining memory backup. The 7179ES may then be hidd elsewhere in the car or carried with the owner for theft prevention. Th QRB also provides for easy reinstallation of the unit.
- **AUTO METAL:**
  When a metal cassette tape is inserted, the tape mechanism automati adjusts to metal tape equalization.
- **RADIO MONITOR:**
  Allows listening to the FM/AM Tuner section while the tape is in either forward or rewind mode.
- **D.A.P. (DIRECT ACCESS PRESET):**
  D.A.P. allows the storage of AM and FM presets on the same band, eliminating the need to press the BAND Select button.
  Up to 6 stations can be mixed in the D.A.P. band.
- **LITETOUCH™ 24-STATION PRESET:**
  FM 1 : 6, FM 2 : 6, AM : 6, D.A.P.: 6.
- **T-10 II TUNER**
  Alpine's premier tuner — utilizes a number of innovations to ensure sta noise-free FM reception in both strong and weak signal areas. A doubl balanced mixer increases headroom. Dual gate MOSFETs increase sig to-noise performance by reducing intermodulation distortion. The high-soft mute and blend circuits combine to provide optimum reception of weak signals. An engine noise suppressor circuit eliminates pulse nois from the car's ignition system, as well as from other cars.
- **SCC TAPE HEAD:**
  Provides extended tape head life, high frequency response, and is idea use with metal tape.
- **GT MECHANISM:**
  This Alpine electronic mechanism ensures stable tape speed, reduces wow & flutter and provides extended high frequencies up to 16 kHz.
- **TAPE DIRECTION INDICATOR**
- **DUST-GUARD CASSETTE DOOR**
  Closes completely after insertion of the cassette in order to protect the internal mechanism.
- **VOLUME CONTROL WITH 36 CLICK DETENTS**
- **LOCAL/DISTANCE SWITCH**
- **6 WATTS PER CHANNEL OUTPUT POWER**
- **LOUDNESS CONTROL AND INDICATOR**
- **POWER FADER**
- **PLL FREQUENCY SYNTHESIZER**
- **STEREO/MONAURAL BUTTON**
- **STEREO [ST] INDICATOR**
- **FADER CONTROL**
  To shift the balance of sound to the front or rear speakers. When usin front speakers only, this control must be left fully counterclockwise.

## CONTROLS AND INDICATORS

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**Indicator**
**Indicator**
**'Distance) Indicator**
**Reception Indicator (ST)**
**Indicator (MO)**
**dress Indicators**
**I/FF & REW Switches**
**\I) Switch**
**P) Switch**
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**)ness** Switch**
**Switch (MONO)**
**'Distance) Switch**
**'OFF Switch/VOLume Control/BALance Control (Pull)**
**itrol**

ss control, keep pressing this switch for 3 seconds or longer.

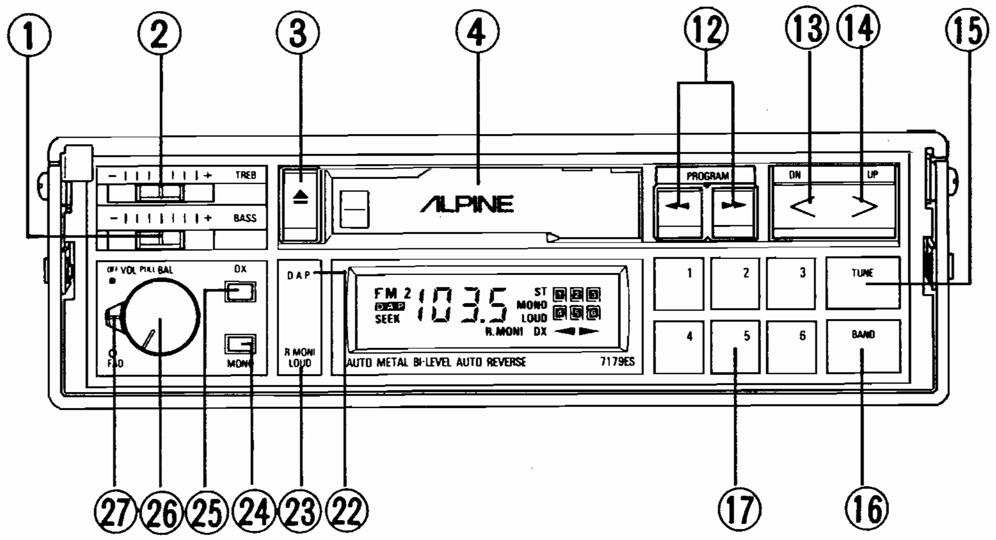
## FEATURES

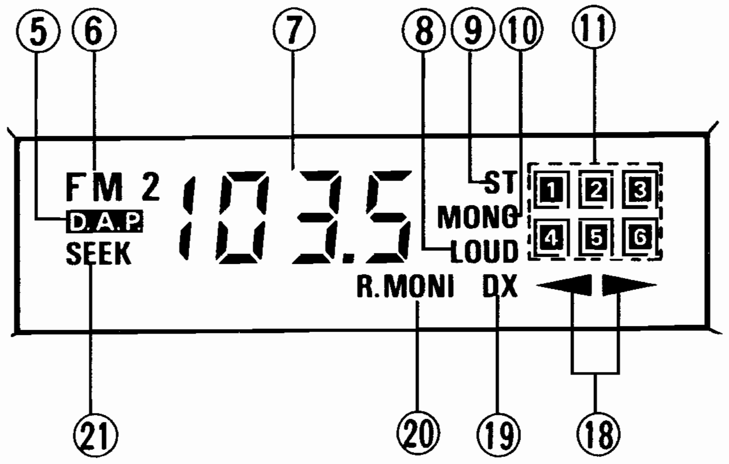
**[7179ES model only]**

- **FULL FRONT DIN™:**
- **QUICK RELEASE BRACKET (Q.R.B.):**
  Alpine's exclusive QRB design allows for easy removal of the 7179ES while still maintaining memory backup. The 7179ES may then be hidden elsewhere in the car or carried with the owner for theft prevention. This QRB also provides for easy reinstallation of the unit.
- **AUTO METAL:**
  When a metal cassette tape is inserted, the tape mechanism automatically adjusts to metal tape equalization.
- **RADIO MONITOR:**
  Allows listening to the FM/AM Tuner section while the tape is in either fast forward or rewind mode.
- **D.A.P. (DIRECT ACCESS PRESET):**
  D.A.P. allows the storage of AM and FM presets on the same band, eliminating the need to press the BAND Select button.
  Up to 6 stations can be mixed in the D.A.P. band.
- **LITETOUCH™ 24-STATION PRESET:**
  FM 1 : 6, FM 2 : 6, AM : 6, D.A.P.: 6.
- **T-10 II TUNER**
  Alpine's premier tuner — utilizes a number of innovations to ensure stable, noise-free FM reception in both strong and weak signal areas. A double balanced mixer increases headroom. Dual gate MOSFETs increase signal-to-noise performance by reducing intermodulation distortion. The high-cut, soft mute and blend circuits combine to provide optimum reception of weak signals. An engine noise suppressor circuit eliminates pulse noise from the car's ignition system, as well as from other cars.
- **SCC TAPE HEAD:**
  Provides extended tape head life, high frequency response, and is ideal for use with metal tape.
- **GT MECHANISM:**
  This Alpine electronic mechanism ensures stable tape speed, reduces wow & flutter and provides extended high frequencies up to 16 kHz.
- **TAPE DIRECTION INDICATOR**
- **DUST-GUARD CASSETTE DOOR**
  Closes completely after insertion of the cassette in order to protect the internal mechanism.
- **VOLUME CONTROL WITH 36 CLICK DETENTS**
- **LOCAL/DISTANCE SWITCH**
- **6 WATTS PER CHANNEL OUTPUT POWER**
- **LOUDNESS CONTROL AND INDICATOR**
- **POWER FADER**
- **PLL FREQUENCY SYNTHESIZER**
- **STEREO/MONAURAL BUTTON**
- **STEREO [ST] INDICATOR**
- **FADER CONTROL**
  To shift the balance of sound to the front or rear speakers. When using front speakers only, this control must be left fully counterclockwise.

## CONTROLS AND INDICATORS

**[7179ES model only]**



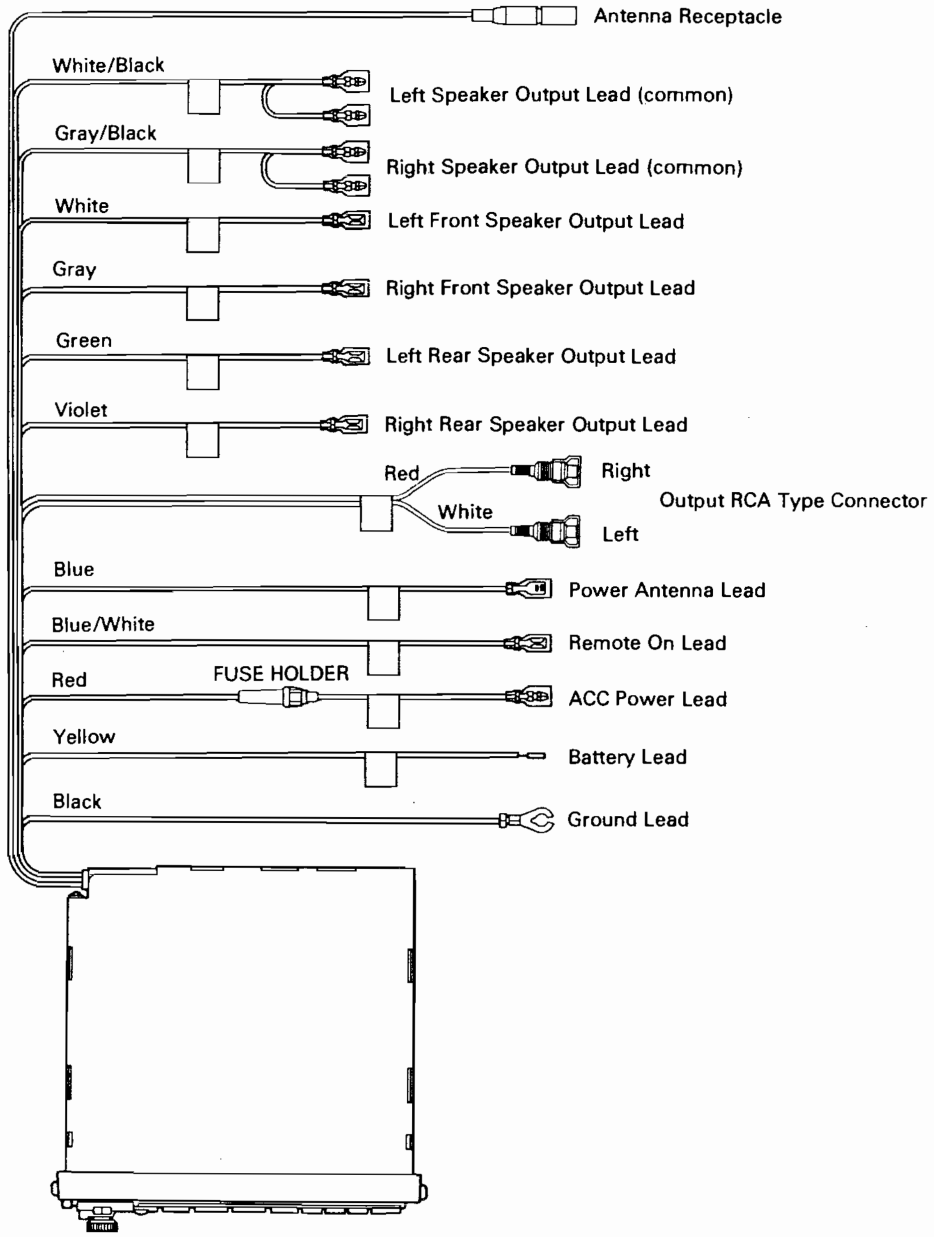


## CONTROLS AND INDICATORS

- ① **BASS Control**
- ② **TREBle Control**
- ③ **EJECT Button**
- ④ **Cassette Loading Slot**
- ⑤ **D.A.P. (Direct Access Preset) Indicator**
- ⑥ **Radio Band Indicator**
- ⑦ **Frequency Indicator**
- ⑧ **LOUDness Indicator**
- ⑨ **FM STereo Reception Indicator**
- ⑩ **Monaural Indicator (MONO)**
- ⑪ **Preset Addres Indicator**
- ⑫ **PROGRAM/FF & REW Buttons**
- ⑬ **Tuning (DN) Button**
- ⑭ **Tuning (UP) Button**
- ⑮ **TUNE Button**
- ⑯ **BAND Select Button**
- ⑰ **Station Preset Buttons**
- ⑱ **Tape Direction Indicator**
- ⑲ **DX (Local/Distance) Indicator**
- ⑳ **Radio MONItor Indicator**
- ㉑ **SEEK Tuning Indicator**
- ㉒ **D.A.P. (Direct Access Preset) Button**
- ㉓ **Radio MONItor/LOUDness** Button**
- ㉔ **Monaural Button [MONO]**
- ㉕ **DX (Local/Distance) Button**
- ㉖ **Power on/OFF/VOLume/BALance (Pull) Control**
- ㉗ **FADer Control**

** For Loudness control, keep pressing this switch for 3 seconds or longer.

## CONNECTIONS

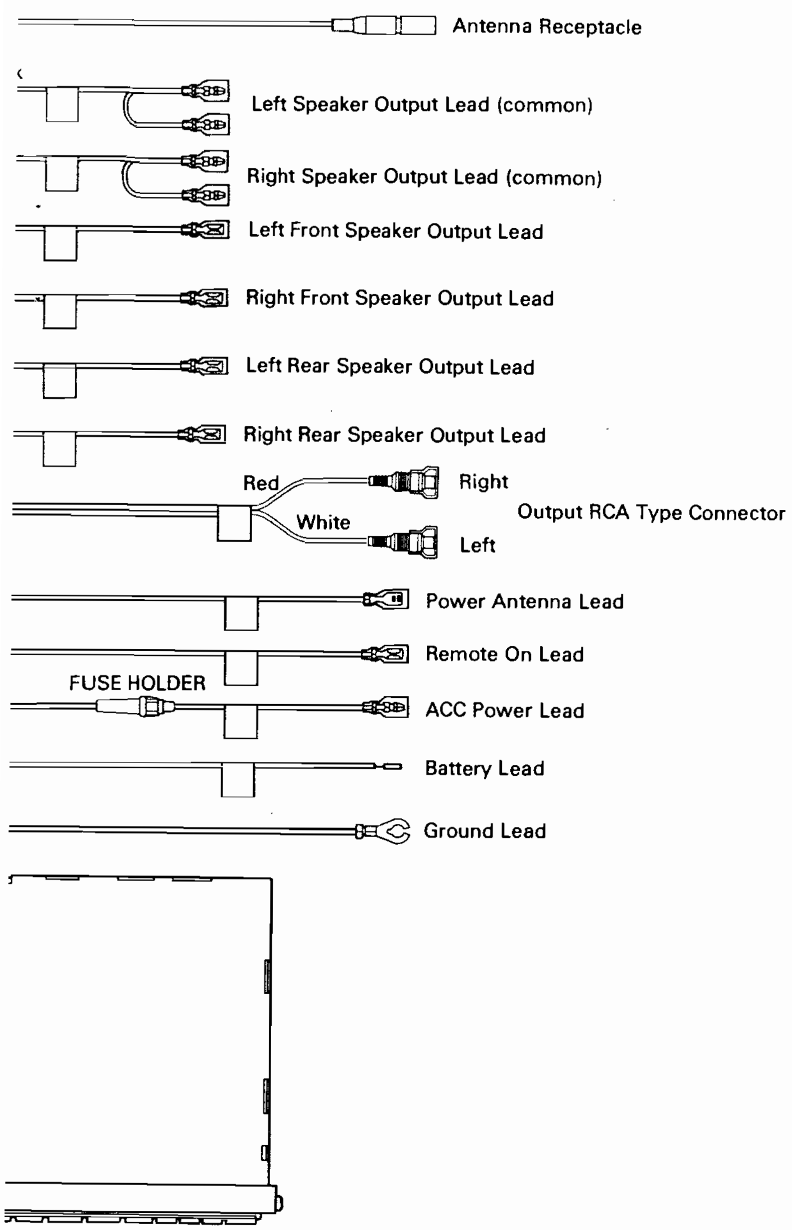

Antenna Receptacle
White/Black
Left Speaker Output Lead (common)
Gray/Black
Right Speaker Output Lead (common)
White
Left Front Speaker Output Lead
Gray
Right Front Speaker Output Lead
Green
Left Rear Speaker Output Lead
Violet
Right Rear Speaker Output Lead
Red
Right
White
Output RCA Type Connector
Left
Blue
Power Antenna Lead
Blue/White
Remote On Lead
Red
FUSE HOLDER
ACC Power Lead
Yellow
Battery Lead
Black
Ground Lead

## CONNECTIONS

- **Output RCA Type Connectors (RED and WHITE)**
  RCA type connectors are for connecting the unit to an unit having RCA type input terminals.
- **Power Antenna Lead (BLUE)**
  Connect the power antenna control lead (Blue) to the connector of full automatic power antenna. Power antenna control does not work with semi-automatic or manually operated antenna. This lead provides a + 12 output when the unit is on (0.5 amp maximum current draw).
- **ACC Power Lead (RED)**
  This lead is to be connected to an ignition terminal in the vehicle's fuse b or a terminal which provides + 12 V when the ignition is turned on.
- **Remote ON Lead (BLUE/WHITE)**
  Connect this lead to the remote turn on lead of an amplifier or processor your audio system. This lead provides a + 12V output when the unit is o (0.5 amp maximum current draw).
- **Antenna Receptacle**
- **Fuse Holders (3A)**
- **Battery Lead (YELLOW)**
  Connect this lead to the positive battery terminal on the vehicle or anoth constant +12V source (fuse block or factory radio provision).
- **Ground Lead (BLACK)**
  This lead is to be connected to the car chassis securely.

**CAUTION:**
Before connecting any wire, set the unit to the off position by fully turning th power on/OFF control counterclockwise.

# CONNECTIONS


Antenna Receptacle
Left Speaker Output Lead (common)
Right Speaker Output Lead (common)
Left Front Speaker Output Lead
Right Front Speaker Output Lead
Left Rear Speaker Output Lead
Right Rear Speaker Output Lead
Red
Right
White
Output RCA Type Connector
Left
Power Antenna Lead
Remote On Lead
FUSE HOLDER
ACC Power Lead
Battery Lead
Ground Lead

# CONNECTIONS

- **Output RCA Type Connectors (RED and WHITE)**
  RCA type connectors are for connecting the unit to an unit having RCA type input terminals.

- **Power Antenna Lead (BLUE)**
  Connect the power antenna control lead (Blue) to the connector of full automatic power antenna. Power antenna control does not work with semi-automatic or manually operated antenna. This lead provides a + 12V output when the unit is on (0.5 amp maximum current draw).

- **ACC Power Lead (RED)**
  This lead is to be connected to an ignition terminal in the vehicle's fuse box or a terminal which provides + 12 V when the ignition is turned on.

- **Remote ON Lead (BLUE/WHITE)**
  Connect this lead to the remote turn on lead of an amplifier or processor in your audio system. This lead provides a + 12V output when the unit is on (0.5 amp maximum current draw).

- **Antenna Receptacle**

- **Fuse Holders (3A)**

- **Battery Lead (YELLOW)**
  Connect this lead to the positive battery terminal on the vehicle or another constant +12V source (fuse block or factory radio provision).

- **Ground Lead (BLACK)**
  This lead is to be connected to the car chassis securely.

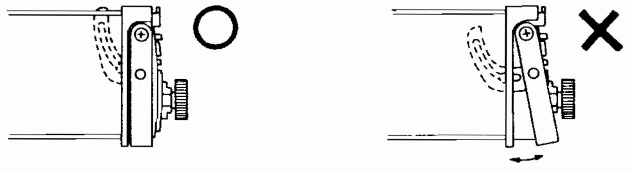
**CAUTION:**
Before connecting any wire, set the unit to the off position by fully turning the power on/OFF control counterclockwise.

# PRECAUTIONS

1. When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Have your car's voltage regulator checked also. Do not attempt to repair the unit yourself; return the unit to your Alpine dealer or the nearest Alpine Service Station for servicing.
2. In order to ensure proper performance, be sure the temperature in your car is within the range of 14°F (—10°C) to 140°F (60°C) before turning your player on. Good air circulation is essential, especially in hot weather, to prevent internal heat build-up in the unit.
3. C-120 type cassette tapes are not recommended for use in automobile tape players.
4. Prevent any foreign objects from entering the cassette opening as the precision mechanism and tape head may be damaged.
5. To protect your cassette tapes, store them in a cool place away from dust, dirt, and strong magnetic sources such as speaker, electric motors and TV sets.
6. Check and make sure any slack in the tape is taken up before inserting the tape into the unit. A loose tape could cause damage to the unit and the tape itself. Tighten the cassette by inserting a pencil or a similar instrument into the spindle hole and turn until all the slack has been taken up.

**CLEANING**
When playback sound begins to deteriorate, it is time to clean the playback head. Insert a special head cleaning cassette into the tape-loading slot and allow it to run for a few minutes to remove any foreign matter.

**CAUTION:** In the event of road vibration or rapid acceleration or vehicle collision, this unit may become dislodged from its case unless the handle is fully down. This could result in personal injury to occupants of the vehicle or physical damage to the unit. Please see the illustrations below for further information on how to properly secure the handle.



# OPERATION

## ● TAPE PLAYER OPERATION (7179MS model only)

1. Turn the power on by rotating the VOLume control/Power switch ㉗ clockwise. With the tape opening to the right, insert the cassette into the loading slot as far as it will go. One of the tape direction indicators ⑲ will light and the tape will start playing.
2. If a metal or $CrO_2$ cassette tape is inserted, the tape mechanism automatically sets itself for 70$\mu$sec equalization.
3. Adjust the VOLume ㉗, BASS ①, TREBle ②, BALance ㉗ and FADer ㉘ controls to suit your listening preference. Tape reverses automatically at the end of the tape to play the other side.
4. To change from side A to play side B or vice versa before the end of the tape is reached, press the PROGRAM switch ⑬.
5. To stop tape play, press the EJECT switch ③.
6. To turn the power OFF, fully rotate the VOLume control counterclockwise.

## ● TAPE PLAYER OPERATION (7179LS//ES models only)

1. Turn the power on by rotating the VOLume control/Power switch ㉖ clockwise. With the tape opening to the right, insert the cassette into the loading slot as far as it will go. One of the tape direction indicators ⑱ will light and the tape will start playing.
2. If a metal or $CrO_2$ cassette tape is inserted, the tape mechanism automatically sets itself for 70$\mu$sec equalization.
3. Adjust the VOLume ㉖, BASS ①, TREBle ②, BALance ㉖ and FADer ㉗ controls to suit your listening preference. Tape reverses automatically at the end of the tape to play the other side.
4. To change from side A to play side B or vice versa before the end of the tape is reached, press the PROGRAM switch ⑫.
5. To stop tape play, press the EJECT switch ③.
6. To turn the power OFF, fully rotate the VOLume control counterclockwise.

### Winding the Tape Rapidly in Forward or Reverse Direction (7179MS model only)

1. Press the PROGRAM Switch ( ◀◀ or ▶▶ button) ⑬ until it locks and the tape will run rapidly in the designated direction.
2. Lightly press the other button to stop the Fast Winding mode. The tape will start playing again.
3. When the Fast Winding operation reaches the end of the tape, the mode will automatically switch to playback.

### Winding the Tape Rapidly in Forward or Reverse Direction (7179LS/ES Models only)

1. Press the PROGRAM Switch ( ◀◀ or ▶▶ button) ⑫ until it locks and the tape will run rapidly in the designated direction.
2. Lightly press the other button to stop the Fast Winding mode. The tape will start playing again.
3. When the Fast Winding operation reaches the end of the tape, the mode will automatically switch to playback.

### Auto Pause

When the unit is removed from its bracket, it automatically goes into the Tape Pause Mode, the tape disengages from the capstan and pinch roller but the cassette stays in the unit. When the unit is re-inserted into the bracket, tape play will resume from the point in which it was stopped.

### Key-off Pause

If the ignition is turned off while a cassette is playing, the tape disengages from the tape head, capstan, and pinch roller, but the cassette remains in the cassette compartment with the cassette door completely closed. When the ignition switch is turned on again, playback will begin from the point where it was left off.

### Radio Monitor (7179LS model only)

Pushing the RADIO MONITOR/LOUDNESS switch ㉓, Radio Monitor is activated and R. MONI indicator ⑳ will light, you can receive the last tuned station or operate seek tuning UP ⑭ and DN ⑬. Push this switch for 3 seconds or more to activate LOUDNESS function; LOUD indicator lights up. Low frequency sound will be boosted at low sound contents. Push the switch again for 3 seconds or more to release the function.

# OPERATION

### Radio Monitor (7179ES model only)

If the Radio MONItor button ㉓ is pressed during Fast Forward or Rewind, radio reception will start. However, when the Fast Forward or Rewind operation has completed, the radio reception will stop and the tape will automatically begin playback.

## ● RADIO OPERATION

### Manual and Automatic Seek Tuning (7179MS model only)

The radio does not operate in the tape play mode. To listen to the radio, eject the cassette by pressing the EJECT switch ③.

Pressing the EJECT switch ③ during tape play causes the tape in the loading slot to be ejected.

1. Turn on the power by turning the VOLume control/Power switch ㉗ clockwise. Continue to rotate it until the desired volume level is reached.
2. Push the BAND select switch ⑰ for reception of MW, LW or FM (FM 1 or FM2). The radio Band Indicator ⑥ will be on, and the ST [stereo] indicator ⑩ will also be on during FM stereo reception.
3. Adjust the BASS ①, TREBle ②, BALance ㉗, and FADer ㉘ controls to their center positions.
4. To automatically tune, press the TUNE switch ⑯ and then either UP ⑮ or DN ⑭ tuning switch. The SEEK indicator ㉒ appears on the display and the frequency changes to indicate that the radio is in the auto SEEK tuning mode and ready to stop at every strong station. Repeat the procedure until your desired station is obtained. When the radio reaches the upper or lower end of the band, it automatically starts scanning in the opposite direction. To return to manual tuning, press the TUNE switch again, the SEEK indicator disappears.
5. To manually tune, press the Tuning Switch (UP) ⑮ for higher frequency broadcasts, and press the Tuning switch (DN) ⑭ for lower frequency broadcasts.
6. Adjust the VOLume ㉗, BASS ①, TREBle ②, BALance ㉗, and FADer ㉘, to suit your listening preference.
7. To switch from FM to MW/LW or vice versa, press the BAND select switch ⑰.

### Manual and Automatic Seek Tuning (7179LS model only)

The radio does not operate in the tape play mode. To listen to the radio, eject the cassette by pressing the EJECT switch ③.

Pressing the EJECT switch ③ during tape play causes the tape in the loading slot to be ejected.

1. Turn on the power by turning the VOLume control/Power switch ㉖ clockwise. Continue to rotate it until the desired volume level is reached.
2. Push the BAND select switch ⑯ for reception of MW, LW or FM (FM 1 or FM2). The radio Band Indicator ⑥ will be on, and the ST [stereo] indicator ⑨ will also be on during FM stereo reception.
3. Adjust the BASS ①, TREBle ②, BALance ㉖, and FADer ㉗ controls to their center positions.
4. To automatically tune, press the TUNE switch ⑮ and then either UP ⑭ or DN ⑬ tuning switch. The SEEK indicator ㉑ appears on the display and the frequency changes to indicate that the radio is in the auto SEEK tuning mode and ready to stop at every strong station. Repeat the procedure until your desired station is obtained. When the radio reaches the upper or lower end of the band, it automatically starts scanning in the opposite direction. To return to manual tuning, press the TUNE switch again, the SEEK indicator disappears.
5. To manually tune, press the Tuning Switch (UP) ⑭ for higher frequency broadcasts, and press the Tuning switch (DN) ⑬ for lower frequency broadcasts.
6. Adjust the VOLume ㉖, BASS ①, TREBle ②, BALance ㉖, and FADer ㉗, to suit your listening preference.
7. To switch from FM to MW/LW or vice versa, press the BAND select switch ⑯.

# OPERATION

### Manual and Automatic Seek Tuning (7179ES model only)

The radio does not operate in the tape play mode. To listen to the radic
the cassette by pressing the EJECT button ③.

1. Turn on the power by turning the VOLume/Power OFF control ㉖
   clockwise. Continue to rotate it until the desired volume level is rea
2. Push the Radio BAND select button ⑯ for reception of AM or FM (F
   FM2). The radio BAND Indicator ⑥ will be on, and the ST [stereo] in
   ⑨ will also be on during FM stereo reception.
3. Adjust the BASS ①, TREBle ②, BALance ㉖, and FADer ㉗ controls t
   center positions.
4. To automatically tune, press the TUNE button ⑮ and then either UP
   DN ⑬ tuning button. The SEEK indicator ㉑ appears on the display a
   frequency changes to indicate that the radio is in the auto SEEK tuni
   mode and ready to stop at every strong station. Press the tuning bu
   until your desired station is obtained. When the radio reaches the u
   lower end of the band, it automatically starts scanning in the opposi
   direction.
   To return to manual tuning, press the TUNE button again, the SEEK
   indicator disappears.
5. To manually tune, press the Tuning button (UP) ⑭ for higher freque
   broadcasts, and press the Tuning button (DN) ⑬ for lower frequenc
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6. Adjust the VOLume ㉖, BASS ①, TREBle ②, BALance ㉖, and FADe
   controls, to suit your listening preference.
7. To switch from FM to AM or vice versa, press the BAND select but

### Manual Memory Preset (7179MS model only)

Follow the instructions below to memorize stations for preset tuning.

1. Select the tuning band (FM1, FM2, MW or LW) ⑥ with the BAND select switc
2. Tune in your desired station by manual tuning or Auto SEEK tuning.
3. Press any Preset switch ⑱ for more than two seconds. The Address indicato
   the display will begin to blink. Press that switch a second time while the indic
   blinking for five seconds.
4. The preset number will be memorized and will then show in the display ⑫.
   **Note:** If a preset memory has already been set in the same address, it will
   cleared and the new station will be memorized.

### Manual Memory Preset (7179LS model only)

Follow the instructions below to memorize stations for preset tuning.

1. Select the tuning band (FM1, FM2, MW or LW) ⑥ with the BAND select switc
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Follow the instructions below to memorize stations for preset tuning.

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2. Tune in your desired station by manual tuning or Auto SEEK tuning.

# OPERATION

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### ƆPERATION

### d Automatic Seek Tuning (7179MS model only)

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# OPERATION

### Manual and Automatic Seek Tuning (7179ES model only)

The radio does not operate in the tape play mode. To listen to the radio, eject the cassette by pressing the EJECT button ③.

1. Turn on the power by turning the VOLume/Power OFF control ㉖ clockwise. Continue to rotate it until the desired volume level is reached.
2. Push the Radio BAND select button ⑯ for reception of AM or FM (FM 1 or FM2). The radio BAND Indicator ⑥ will be on, and the ST [stereo] indicator ⑨ will also be on during FM stereo reception.
3. Adjust the BASS ①, TREBle ②, BALance ㉖, and FADer ㉗ controls to their center positions.
4. To automatically tune, press the TUNE button ⑮ and then either UP ⑭ or DN ⑬ tuning button. The SEEK indicator ㉑ appears on the display and the frequency changes to indicate that the radio is in the auto SEEK tuning mode and ready to stop at every strong station. Press the tuning button until your desired station is obtained. When the radio reaches the upper or lower end of the band, it automatically starts scanning in the opposite direction.
   To return to manual tuning, press the TUNE button again, the SEEK indicator disappears.
5. To manually tune, press the Tuning button (UP) ⑭ for higher frequency broadcasts, and press the Tuning button (DN) ⑬ for lower frequency broadcasts.
6. Adjust the VOLume ㉖, BASS ①, TREBle ②, BALance ㉖, and FADer ㉗ controls, to suit your listening preference.
7. To switch from FM to AM or vice versa, press the BAND select button ⑯.

### Manual Memory Preset (7179MS model only)

Follow the instructions below to memorize stations for preset tuning.

1. Select the tuning band (FM1, FM2, MW or LW) ⑥ with the BAND select switch ⑰.
2. Tune in your desired station by manual tuning or Auto SEEK tuning.
3. Press any Preset switch ⑱ for more than two seconds. The Address indicator ⑫ in the display will begin to blink. Press that switch a second time while the indicator is blinking for five seconds.
4. The preset number will be memorized and will then show in the display ⑫.
   **Note:** If a preset memory has already been set in the same address, it will be cleared and the new station will be memorized.

### Manual Memory Preset (7179LS model only)

Follow the instructions below to memorize stations for preset tuning.

1. Select the tuning band (FM1, FM2, MW or LW) ⑥ with the BAND select switch ⑯.
2. Tune in your desired station by manual tuning or Auto SEEK tuning.
3. Press any Preset switch ⑰ for more than two seconds. The Address indicator ⑪ in the display will begin to blink. Press that switch a second time while the indicator is blinking for five seconds.
4. The preset number will be memorized and will then show in the display ⑪.
   **Note:** If a preset memory has already been set in the same address, it will be cleared and the new station will be memorized.

### Manual Memory Preset (7179ES model only)

Follow the instructions below to memorize stations for preset tuning.

1. Select the tuning band (FM1, FM2 or AM) ⑥ with the BAND Select button ⑯.
2. Tune in your desired station by manual tuning or Auto SEEK tuning.

# OPERATION

3. Press any Station Preset button ⑰ for more than two seconds. The Preset Address indicator ⑪ in the display will begin to blink. Press that switch a second time while the indicator is blinking for five seconds.
4. The preset number will be memorized and will then show in the display ⑪.
   **Note:** If a preset memory has already been set in the same address, it will be cleared and the new station will be memorized.

### Preset Tuning (7179MS model only)

After the preset stations have been memorized, you can tune in your desired station with just a touch of a switch.

1. Select the tuning band (FM1, FM2, MW or LW) ⑥ with the BAND select switch ⑰.
2. Press any one of the preset switches ⑱ and the number (1 — 6) will illuminate in the display ⑫.

### Preset Tuning (7179LS model only)

After the preset stations have been memorized, you can tune in your desired station with just a touch of a switch.

1. Select the tuning band (FM1, FM2, MW or LW) ⑥ with the BAND select switch ⑯.
2. Press any one of the preset switches ⑰ and the number (1 — 6) will illuminate in the display ⑪.

### Preset Tuning (7179ES model only)

After the preset stations have been memorized, you can tune in your desired station with just a touch of a button.

1. Select the tuning band (FM1, FM2 or AM) ⑥ with the BAND Select button ⑯.
2. Press any one of the Station Preset buttons ⑰ and the number 1 to 6 will illuminate in the display ⑪.

### D.A.P. (Direct Access Preset) (7179MS/LS models only)

This feature allows the storage of FM, MW and LW presets on the same band.
To memorize stations into D.A.P., follow the same procedures as in Manual Memory Preset, above.

### D.A.P. (Direct Access Preset) (7179ES model only)

This feature allows the storage of both AM and FM presets on the same band.
To memorize stations into D.A.P., follow the same procedures as in Manual Memory Preset, above.

### To Access the D.A.P. Presets (7179MS model only)

1. Press the D.A.P. switch ㉓. The D.A.P. indicator ⑤ will illuminate in the display.
2. Press any one of the preset switches and the number (1 — 6) will illuminate in the display.

### To Access the D.A.P. Presets (7179LS/ES models only)

1. Press the D.A.P. switch ㉒. The D.A.P. indicator ⑤ will illuminate in the display.
2. Press any one of the preset switches and the number (1 — 6) will illuminate in the display.

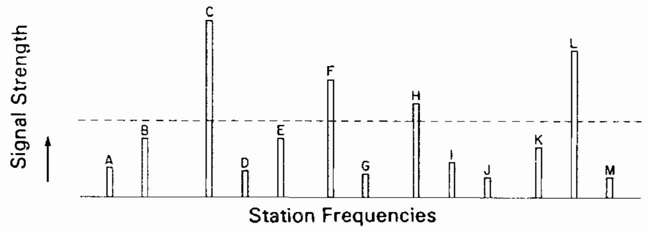
### FM Stereo/Monaural Selection (MONO Switch) (7179MS model only)

During stereo reception, should the signal level become weak (the "ST" indicator ⑩ in the display blinks), select monaural reception by pressing the MONO switch ㉕ to decrease noise level.
**NOTE:** Monaural mode has been set initially. Push the MONO switch ㉕ when a stereo broadcast is being received.

# OPERATION

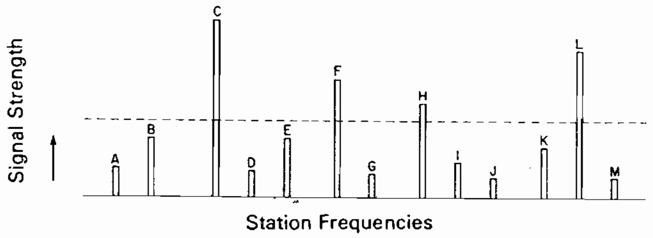
**FM Stereo/Monaural Selection (MONO Switch) (7179LS/ES models only)**
During stereo reception, should the signal level become weak (the "ST" indicator ⑨ in the display blinks), select monaural reception by pressing the MONO switch ㉔ to decrease noise level.
**NOTE:** Monaural mode has been set initially. Push the MONO switch ㉔ when a stereo broadcast is being received.

**Local/Distance Switch Operation (7179MS model only)**
You may select local or distance mode during SEEK tuning. When it is in the local mode (Distance (DX) indicator ⑨ is off), it allows you to tune in strong signal stations only (stations C, F, H and L as shown below). When it is in the distance mode (Distance (DX) indicator is on), weak and strong signal stations (stations from A through M) will be tuned in.
Once a station is tuned in by SEEK in local mode, the mode will automatically switch to distance mode for optimum reception.



**NOTE:** DX (Local/Distance) Switch ㉖ functions only in SEEK tuning.

**Local/Distance Switch Operation (7179LS/ES models only)**
You may select local or distance mode during SEEK tuning. When it is in the local mode (Distance (DX) indicator ⑲ is off), it allows you to tune in strong signal stations only (stations C, F, H and L as shown below). When it is in the distance mode (Distance (DX) indicator is on), weak and strong signal stations (stations from A through M) will be tuned in.
Once a station is tuned in by SEEK in local mode, the mode will automatically switch to distance mode for optimum reception.



**NOTE:** DX (Local/Distance) Switch ㉕ functions only in SEEK tuning.

# OPERATION

**Traffic Information Receiving (7179MS model only)**
This model is equipped with traffic information receiving apparatus to be used in West Germany where the traffic information is broadcast in FM. The following is how to use this unit to receive traffic information broadcasting.

1. Select FM position.
2. Depress the SDK switch and tune to a station. If the station is a traffic information station, the SK indicator will glow and show the reception of a broadcast from a traffic information station.
   NOTE: SK Indicator
   When SK signal is received irrespective of the SDK position, the SK indicator will illuminate.
3. In the SDK mode, stations other than traffic information stations are muted and cut out. Therefore, it is easy to select a traffic information station.
4. As the signal of the tuned traffic information station becomes weak, the SK indicator will extinguish, then after the lapse of 30 seconds, a rhythmical alarm will sound to urge retuning to another stronger station. If the reception of further traffic information is required, tune in the desired traffic information station. When received, the alarm will stop and the SK indicator illuminates. Since the alarm will continue if no signals from any other traffic stations can be received, release SDK switch to stop the alarm and receive normal broadcasting.
5. When the unit is playing a cassette tape with the SDK switch pushed in and tuned to a traffic information station, the tape play is interrupted and changed to FM radio if the pre-tuned station begins a traffic information message. When the message is over, the unit reverts to tape play automatically.
6. Even if the VOLUME control is set to the minimum position, the volume of the traffic information will be automatically adjusted to proper level. After the message, the sound volume returns to the previously adjusted level.
7. If traffic information reception is no longer necessary, release SDK switch for normal radio reception.

# Adjustment Procedures

## 1. AM SECTION

(1) Dummy Antenna Circuit

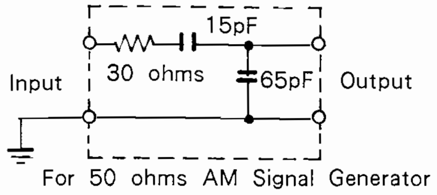

15pF
30 ohms
65pF
Input
Output
For 50 ohms AM Signal Generator

**Figure 1**

(2) Connections

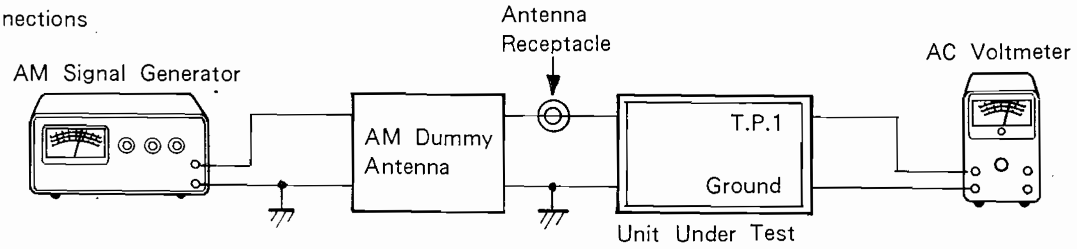

AM Signal Generator
AM Dummy Antenna
Antenna Receptacle
T.P.1
Ground
Unit Under Test
AC Voltmeter

**Figure 2**

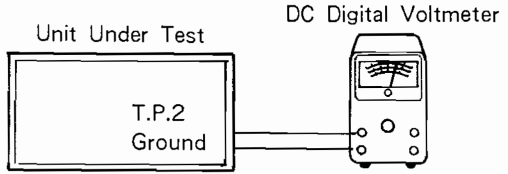

Unit Under Test
T.P.2
Ground
DC Digital Voltmeter

**Figure 3**

(3) Location of Adjustment Parts
See Adjustment Locations.

(4) Control Settings

Power Switch ································ ON
FM/AM Switch ····························· AM
Others ········································ OFF

Balance Control ················ Mechanical Center
Treble/Bass Control ·········· Mechanical Center
Fader Control ······················· Front Position

(5) Adjustment Procedures (7179ES Model Only)

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | Band Covering | Figure 3 | – | 1,620kHz | VC3 for 7.7±0.1V Output. |
| 2 | Band Covering | Figure 3 | – | 530kHz | T5 for 1.5±0.05V Output. |
| 3 | Band Covering | Figure 3 | – | – | Repeat Steps 1 and 2. |
| 4 | IF Adjustment | Figure 2 | 1,400kHz, 20dB μ | 1,400kHz | T6, 7 for Maximum Output. |
| 5 | Tracking | Figure 2 | 1,400kHz, 20dB μ | 1,400kHz | VC1, 2 for Maximum Output. |
| 6 | Tracking | Figure 2 | 610kHz, 20dB μ | 610kHz | T4, 5 for Maximum Output. |
| 7 | Tracking | Figure 2 | – | – | Repeat Steps 5 and 6. |

(5) Adjustment Procedures (7179MS/LS Models Only)

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | Band Covering | Figure 3 | – | 153kHz | L8 for 2.3±0.2V Output. |
| 2 | IF Adjustment | Figure 2 | 999kHz, 20dB | 999kHz | T3 for Maximum Output. |
| 3 | Tracking | Figure 2 | 999kHz, 20dB | 999kHz | T1, 2 for Maximum Output. |

## 2. SDK Section (7179MS Model Only)

(1) Dummy Antenna

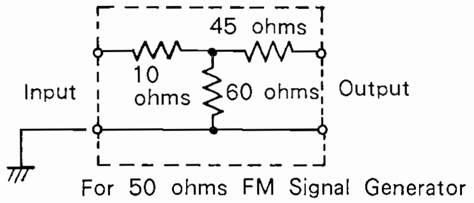

45 ohms
10 ohms
60 ohms
Input
Output
For 50 ohms FM Signal Generator

**Figure 4**

(2) Connections

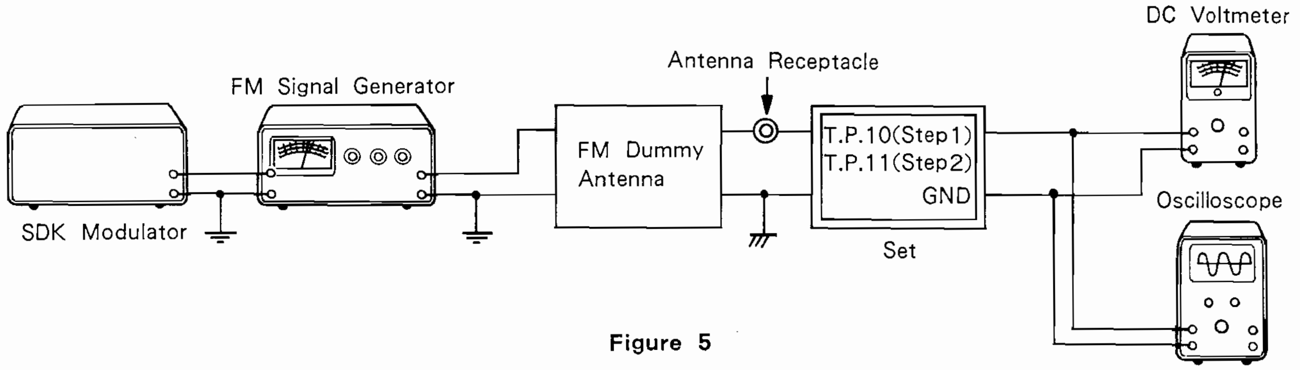

DC Voltmeter
Antenna Receptacle
FM Signal Generator
FM Dummy Antenna
T.P.10(Step1)
T.P.11(Step2)
GND
Set
SDK Modulator
Oscilloscope

**Figure 5**

(3) Control Settings

Power Switch ································ ON
Band Select Switch ······················ SDK
Balance Control ················ Mechanical Center

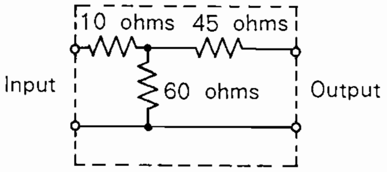
Treble/Bass Controls ·········· Mechanical Center
Fader Control ······················· Front Position
Others ········································ OFF

(4) Adjustment Procedures

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | SK Adjustment | Figure 5 | 98.1MHz, 20dB μ<br>(SK, BK : ON DK : OFF) | 98.1MHz | L601 for Maximum Output of T.P.10. |
| 2 | DK Adjustment | Figure 5 | 98.1MHz, 66dB μ<br>(SK, BK, DK : ON) | 98.1MHz | VR601 for Maximum Output of T.P.11. |

### 3. FM SECTION

(1) Dummy Antenna Circuit


10 ohms
45 ohms
Input
60 ohms
Output

For 50 ohms FM Signal Generator

**Figure 6**

(2) Connections

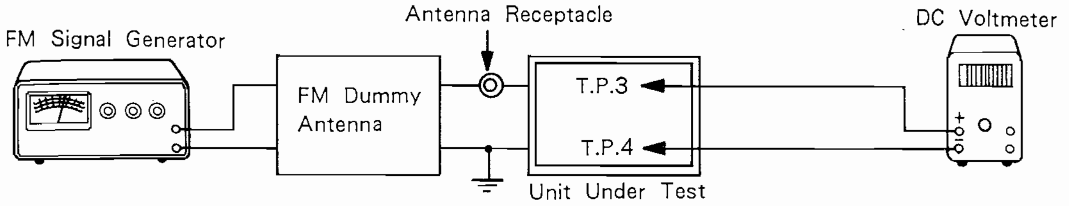

FM Signal Generator
FM Dummy Antenna
Antenna Receptacle
T.P.3
T.P.4
Unit Under Test
DC Voltmeter
+

**Figure 7**

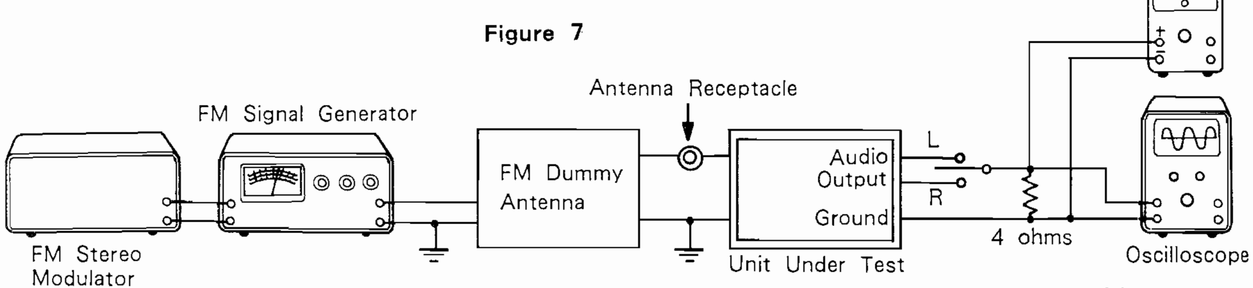

AC VTVM
Antenna Receptacle
FM Signal Generator
FM Dummy Antenna
Audio Output
Ground
L
R
4 ohms
Unit Under Test
FM Stereo Modulator
Oscilloscope

**Figure 8**

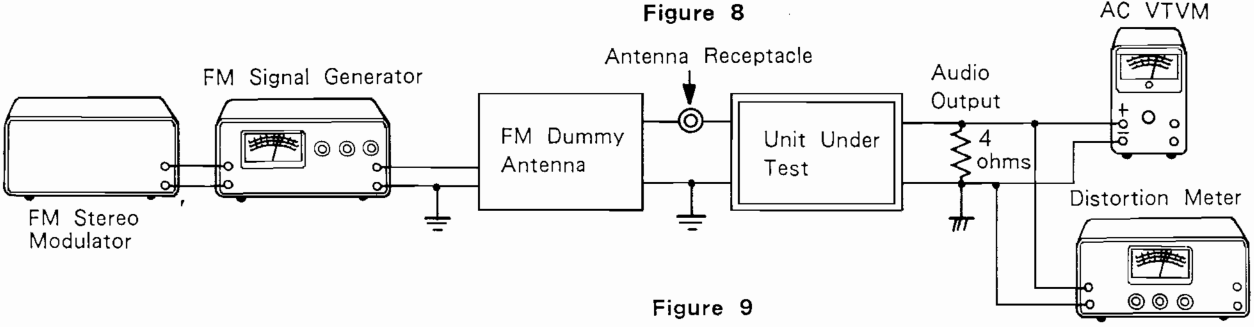

AC VTVM
Antenna Receptacle
FM Signal Generator
FM Dummy Antenna
Unit Under Test
Audio Output
4 ohms
+
FM Stereo Modulator
Distortion Meter

**Figure 9**

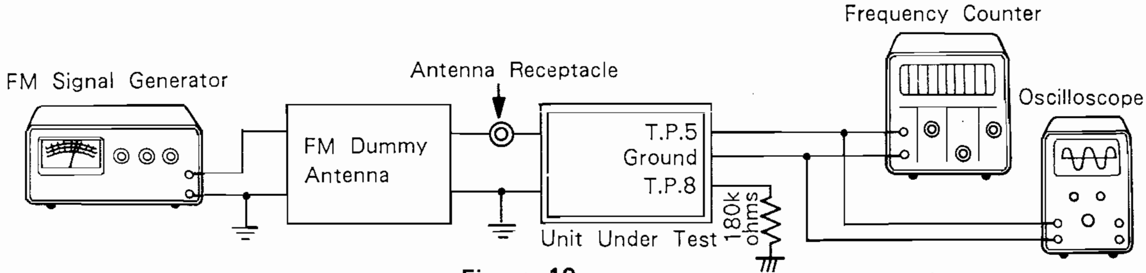

Frequency Counter
FM Signal Generator
Antenna Receptacle
Oscilloscope
FM Dummy Antenna
T.P.5
Ground
T.P.8
Unit Under Test
180k ohms

**Figure 10**

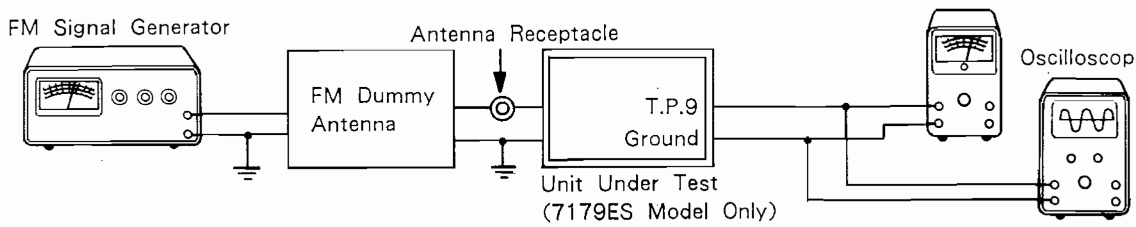

AC VTVM
FM Signal Generator
Antenna Receptacle
Oscilloscope
FM Dummy Antenna
T.P.9
Ground
Unit Under Test
(7179ES Model Only)

**Figure 11**

(3) Location of Adjustment Parts
See Adjustment Locations.

(4) Control Settings

Power Switch ································ON

FM/AM Switch ································FM

Others ·····································OFF

Balance Control ················ Mechanical Center

Treble/Bass Control ·········· Mechanical Center

Fader Control ····················· Front Position

(5) Adjustment Procedures

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | IF Adjustment | Figure 7 | 98.1MHz, 66dB μ<br>(Mono Signal,<br>No Modulation) | 98.1MHz | Confirm to receiving signal.<br>T2 (7179ES), T4 (7179MS/LS) for 0V±0.03V between T.P.3 and 4. |
| 2 | VCO Adjustment | Figure 10 | 98.1MHz, 66dB μ<br>(Mono Signal,<br>No Modulation) | 98.1MHz | VR3 for 19±0.05kHz curve at T.P.5. |
| 3 | Separation Adjustment | Figure 8 | 98.1MHz, 66dB μ, 1,000Hz<br>R (L) Signal, Modulation | 98.1MHz | VR4 (7179ES), VR5 (7179MS/LS) for minimum at L (R) channel output. |
| 4 | FM Stereo Blend Adjustment | Figure 9 | 98.1MHz, 66dB μ<br>L Signal | 98.1MHz | VR401-1, 2 (7179ES)<br>VR302-1, 2 (7179MS/LS)<br>(VOLUME) for 2V at Lch. output. |
|  |  |  | 98.1MHz, 46dB μ<br>L Signal | 98.1MHz | VR1 (7179ES), VR4 (7179MS/LS) for 10±3dB Separation. |
| ※<br>5 | Seek Stop Adjustment | Figure 11 | 98.1MHz, 20dB μ<br>Mono Signal,<br>No Modulation | 98.1MHz | Adjust VR2 for the waveform changing from Low to High. |
| ※<br>6 | Noise Level Adjustment | Figure 8 | 98.1MHz, 66dB μ<br>(Mod. 400Hz,<br>Dev. 22.5kHz) | 98.1MHz | VR302-1, 2 (VOLUME) for 2V at Lch output. |
|  |  |  | 98.1MHz, −10dB μ<br>(Mod. 400Hz<br>Dev. 22.5kHz) | 98.1MHz | VR1 for −25 to −35dB at Lch output. |

※Step 5 ····· 7179ES Model Only. ※Step 6 ····· 7179MS/LS Models Only.

## 4. TAPE SECTION

(1) Connection

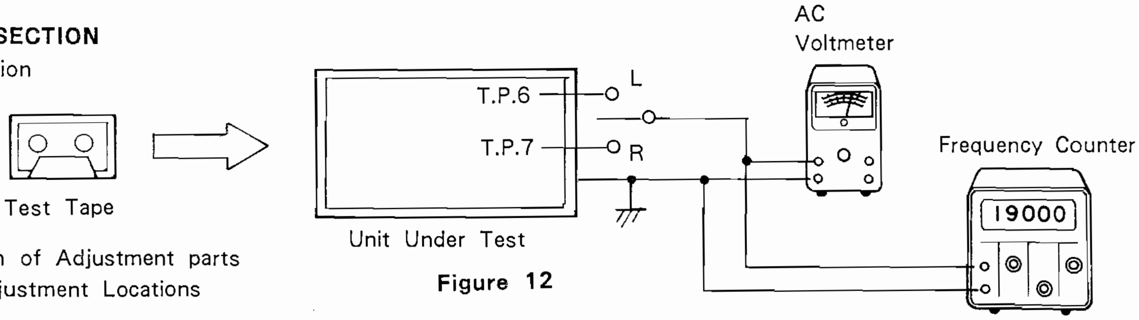


**Figure 12**

(2) Location of Adjustment parts

See Adjustment Locations

(3) Control Settings

Power Switch ································ON

Fader Control ······················ Front Position

Balance Control ················ Mechanical Center

Treble/Bass Control ·········· Mechanical Center

Others ·····································OFF

(4) Adjustment Procedures

| Step | Description | Test Tape | Connection | Test Point | Adjustment Point | Adjustment |
|---|---|---|---|---|---|---|
| 1 | Head Azimuth Adjustment | MTT-114NB (14kHz) | Figure 12 | T.P.6, T.P.7 | Head Azimuth Adjustment Screw (Figure 13) | Adjust for maximum and same level output at normal and reverse positions. |
| 2 | Tape Speed Adjustment | MTT-111 (3kHz) | Figure 12 | T.P.6 or T.P.7 | Tape Speed Adjustment Volume (Figure 14) | 3,030−3,080Hz |

# Adjustment Locations

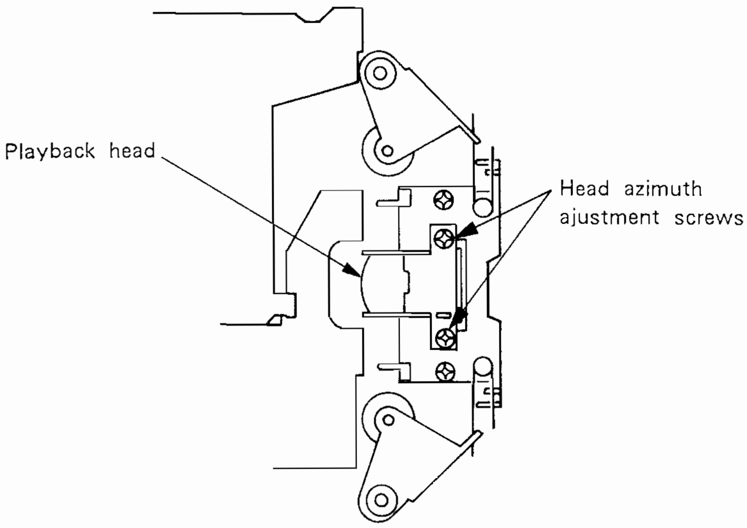

Playback head
Head azimuth
ajustment screws

Figure 13

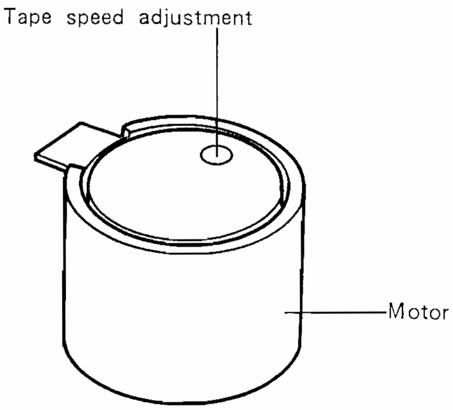
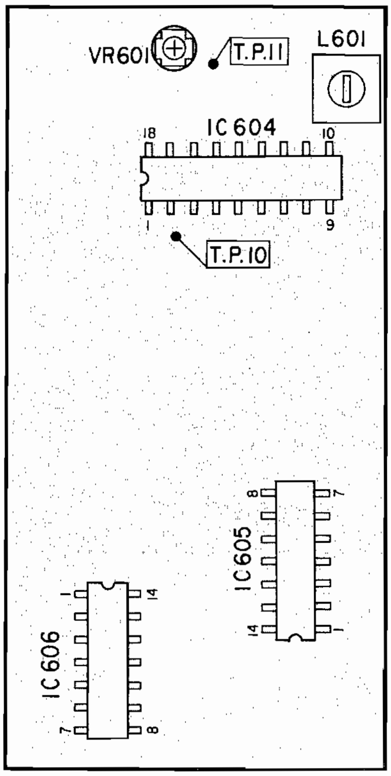
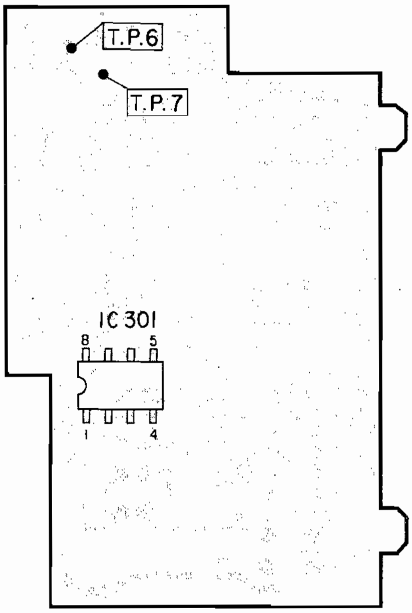

Tape speed adjustment
Motor

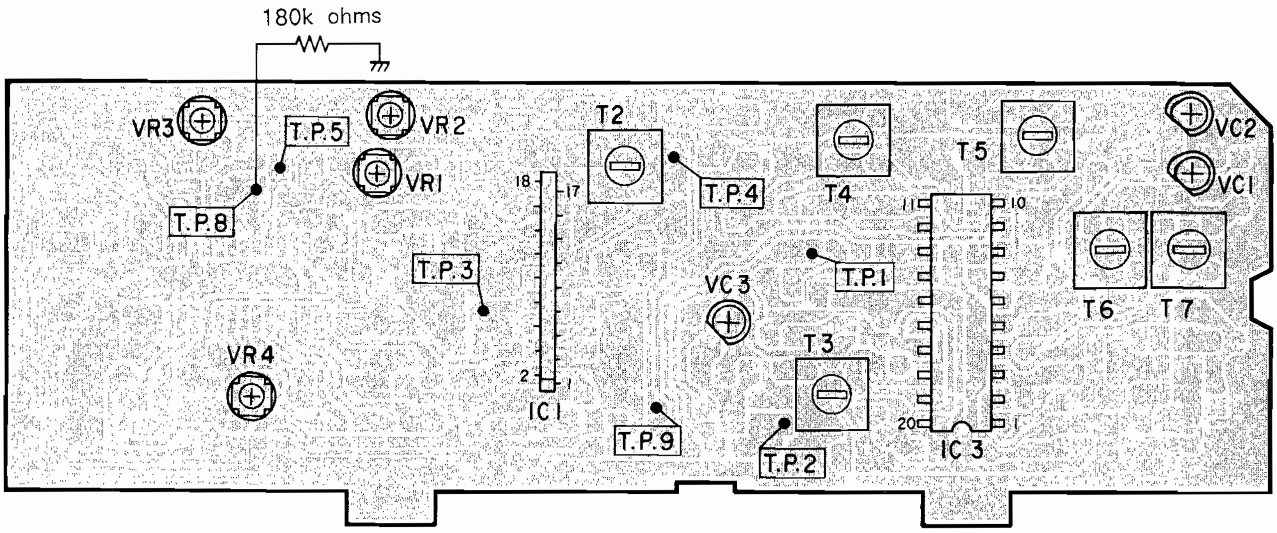
Figure 14


VR601
T.P.11
L601
IC604
18
10
1
9
T.P.10
IC605
8
7
14
1
IC606
1
14
7
8

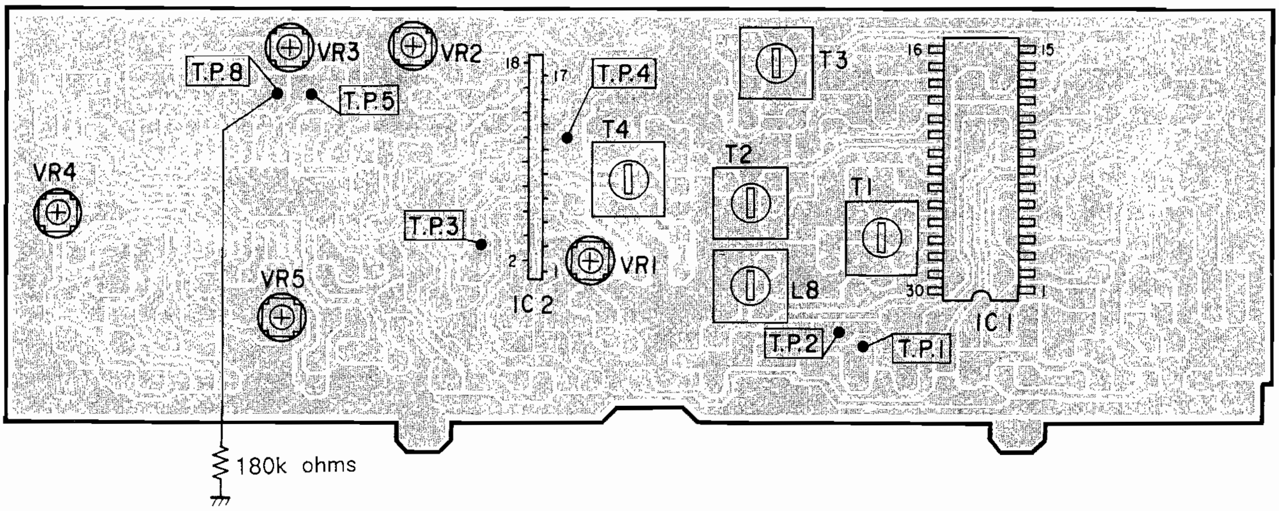
SDK P. C. Board (Top View)
(7179MS Model Only)


T.P.6
T.P.7
IC301
8
5
1
4

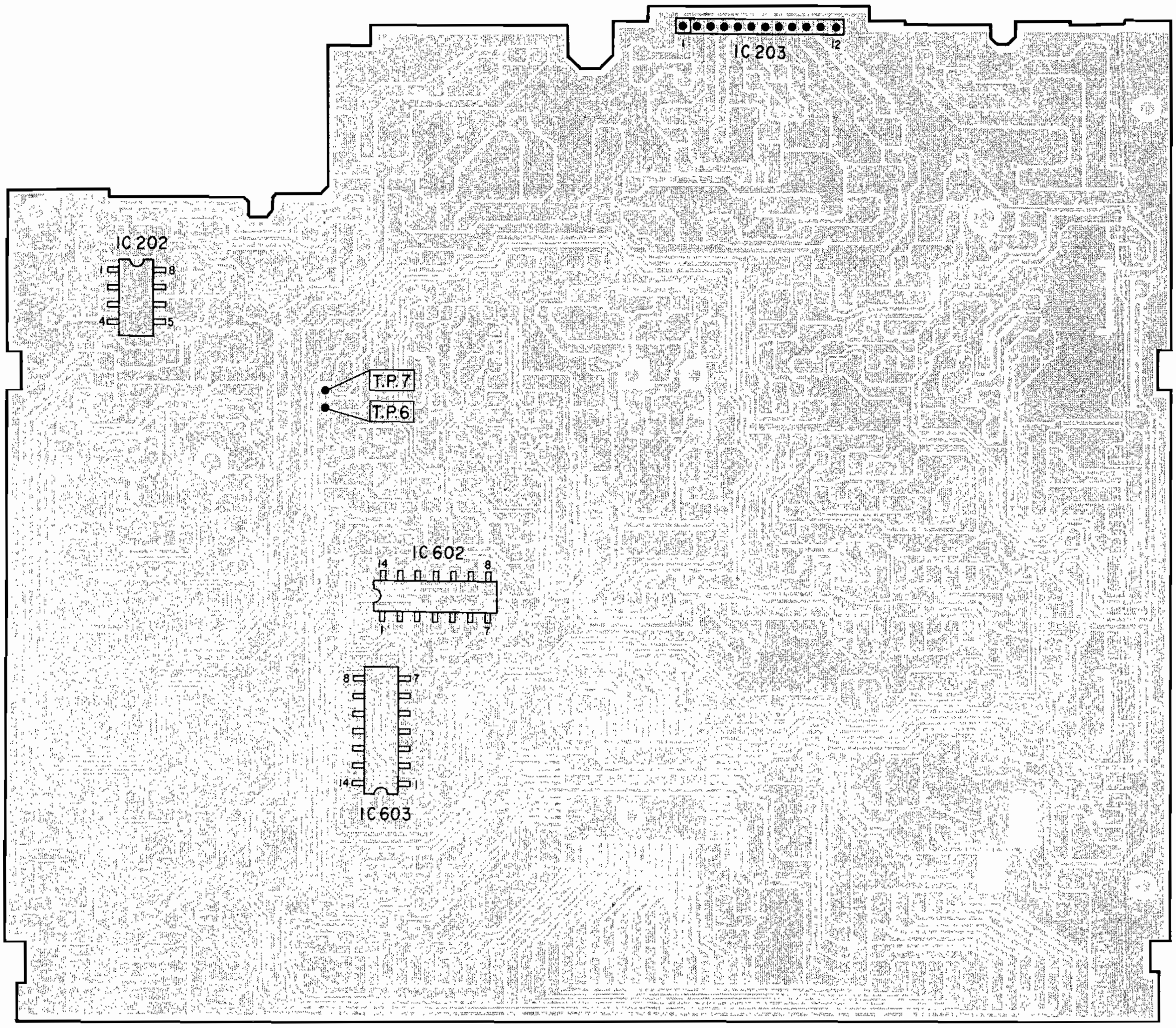
Tone P. C. Board (Top View)
(7179MS/LS Models Only)


180k ohms
VR3
T.P.5
VR2
VR1
T.P.8
T2
T.P.4
T4
T5
VC2
VC1
18
17
T.P.3
11
10
T.P.1
VC3
T6
T7
VR4
T3
2
1
IC1
T.P.9
T.P.2
20
1
IC 3

Tuner P. C. Board (Top View)
(7179ES Model Only)


VR3
VR2
T.P.8
T.P.5
18
17
T.P.4
T3
16
15
T4
T2
VR4
T1
T.P.3
2
1
VR1
VR5
IC 2
L8
30
1
IC1
T.P.2
T.P.1
180k ohms

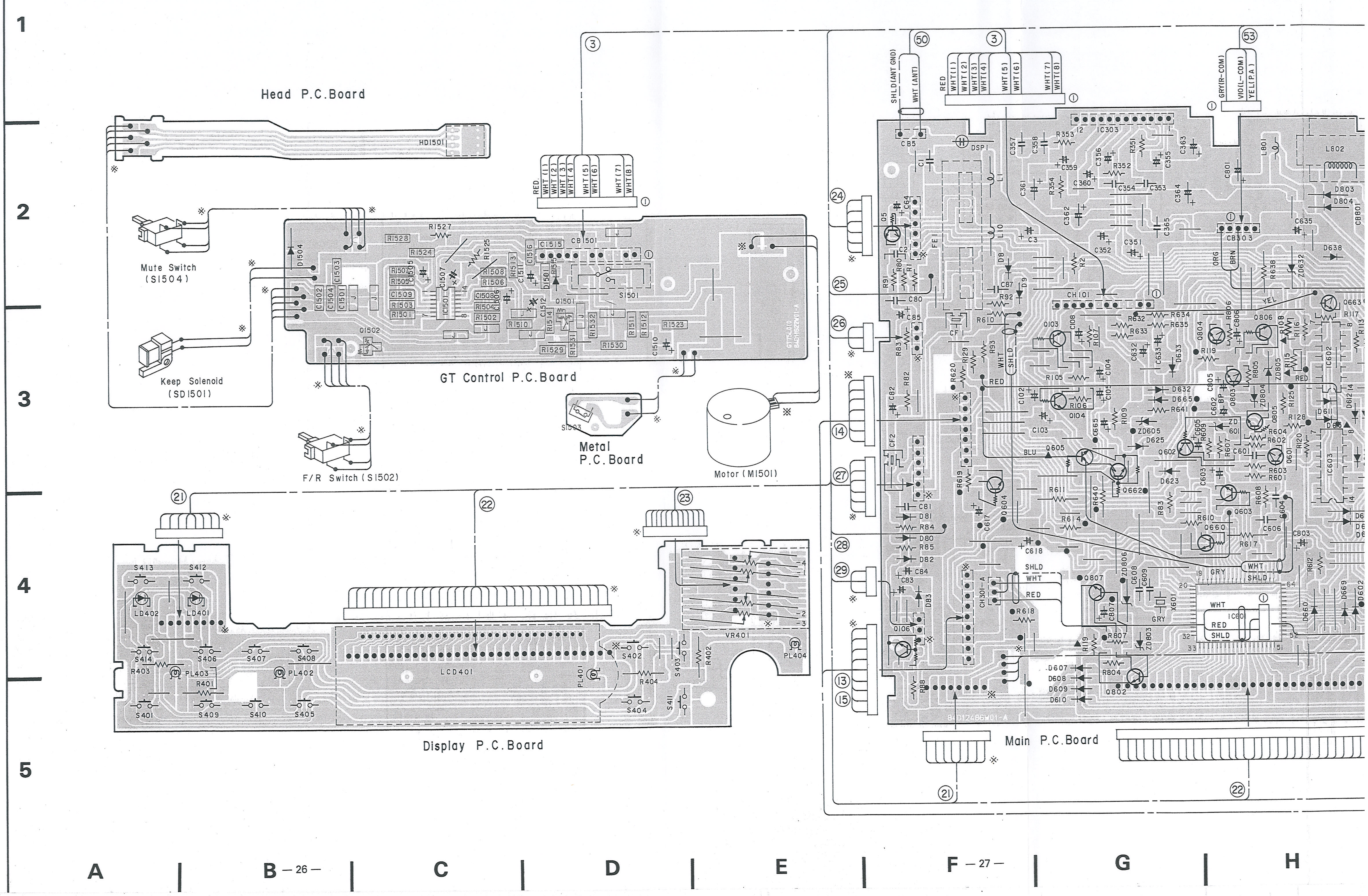
Radio P. C. Board (Top View)
(7179MS/LS Models Only)

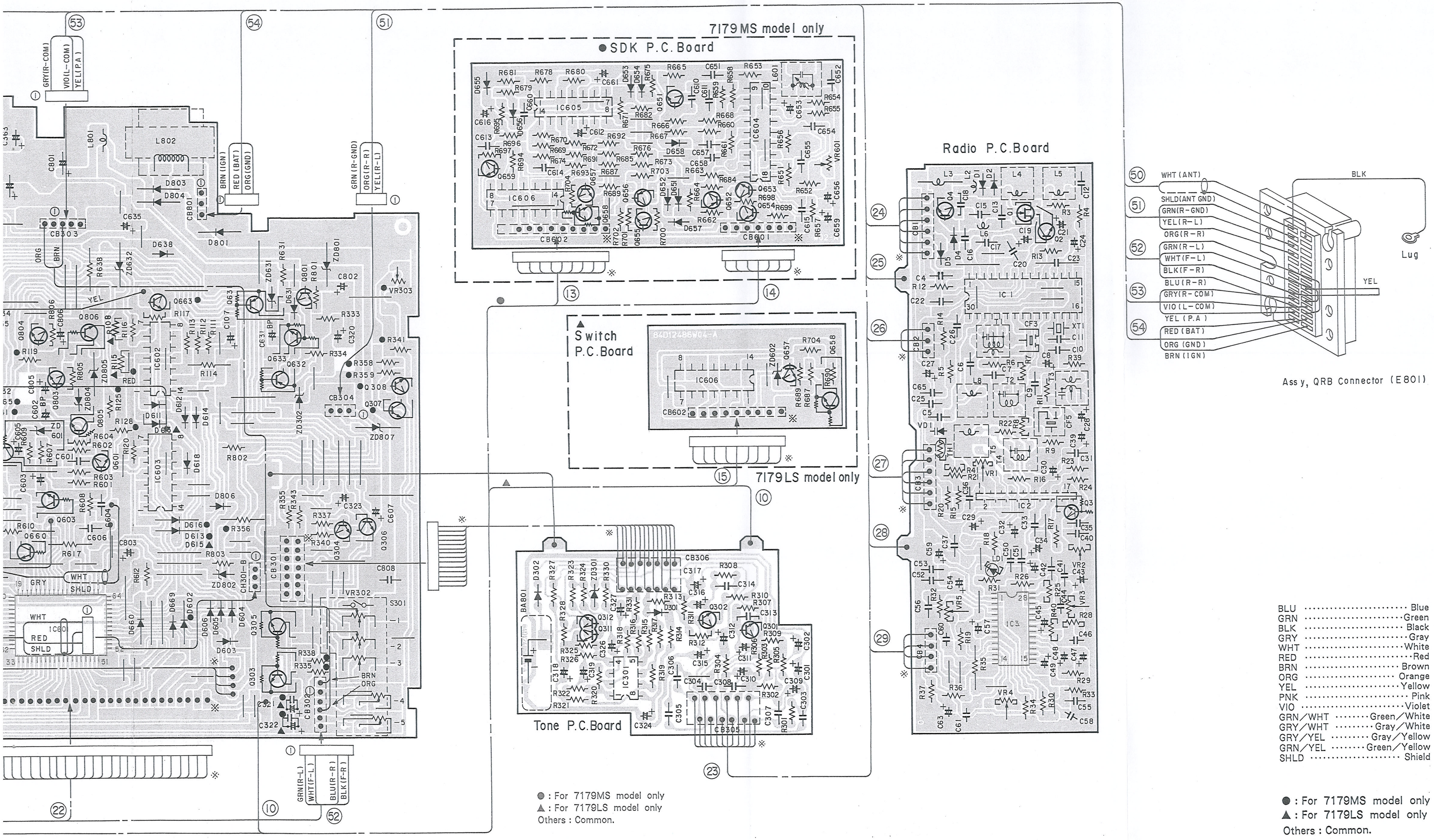

IC 203
1
12
IC 202
1
8
4
5
T.P.7
T.P.6
IC 602
14
8
1
7
IC 603
8
7
14
1

Main P. C. Board (Top View)
(7179ES Model Only)

# Parts Layout on P.C. Boards and Wiring Diagram

●For 7179MS and 7179LS models only


1
2
3
4
5
Head P.C.Board
HD1501
Mute Switch
(S1504)
Keep Solenoid
(SD1501)
F/R Switch (S1502)
GT Control P.C.Board
CB1501
S1501
Q1501
Q1502
IC1501
D1504
RED
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
WHT(6)
WHT(7)
WHT(8)
Metal
P.C.Board
S1503
Motor (M1501)
Display P.C.Board
LCD401
VR401
S401
S402
S403
S404
S405
S406
S407
S408
S409
S410
S411
S412
S413
S414
LD401
LD402
PL401
PL402
PL403
PL404
R401
R402
R403
R404
Main P.C.Board
SHLD(ANT GND)
WHT(ANT)
GRY(R-COM)
VIO(L-COM)
YEL(P.A)
IC303
IC601
CH101
CH301-A
CB303
X601
L801
L802
SHLD
WHT
RED
BLU
GRY
ORG
BRN
YEL
(3)
(13)
(14)
(15)
(21)
(22)
(23)
(24)
(25)
(26)
(27)
(28)
(29)
(50)
(53)
①
※
A
B
C
D
E
F
G
H


7179MS model only
● SDK P.C. Board
▲ Switch P.C. Board
7179LS model only
Tone P.C. Board
Radio P.C. Board
Assy, QRB Connector (E801)
GRY(R-COM)
VIO(L-COM)
YEL(P.A)
BRN(IGN)
RED(BAT)
ORG(GND)
GRN(R-GND)
ORG(R-R)
YEL(R-L)
GRN(R-L)
WHT(F-L)
BLU(R-R)
BLK(F-R)
WHT(ANT)
SHLD(ANT GND)
BLK
YEL
Lug
(50)
(51)
(52)
(53)
(54)
⑩
⑬
⑭
⑮
㉒
㉓
㉔
㉕
㉖
㉗
㉘
㉙
● : For 7179MS model only
▲ : For 7179LS model only
Others : Common.

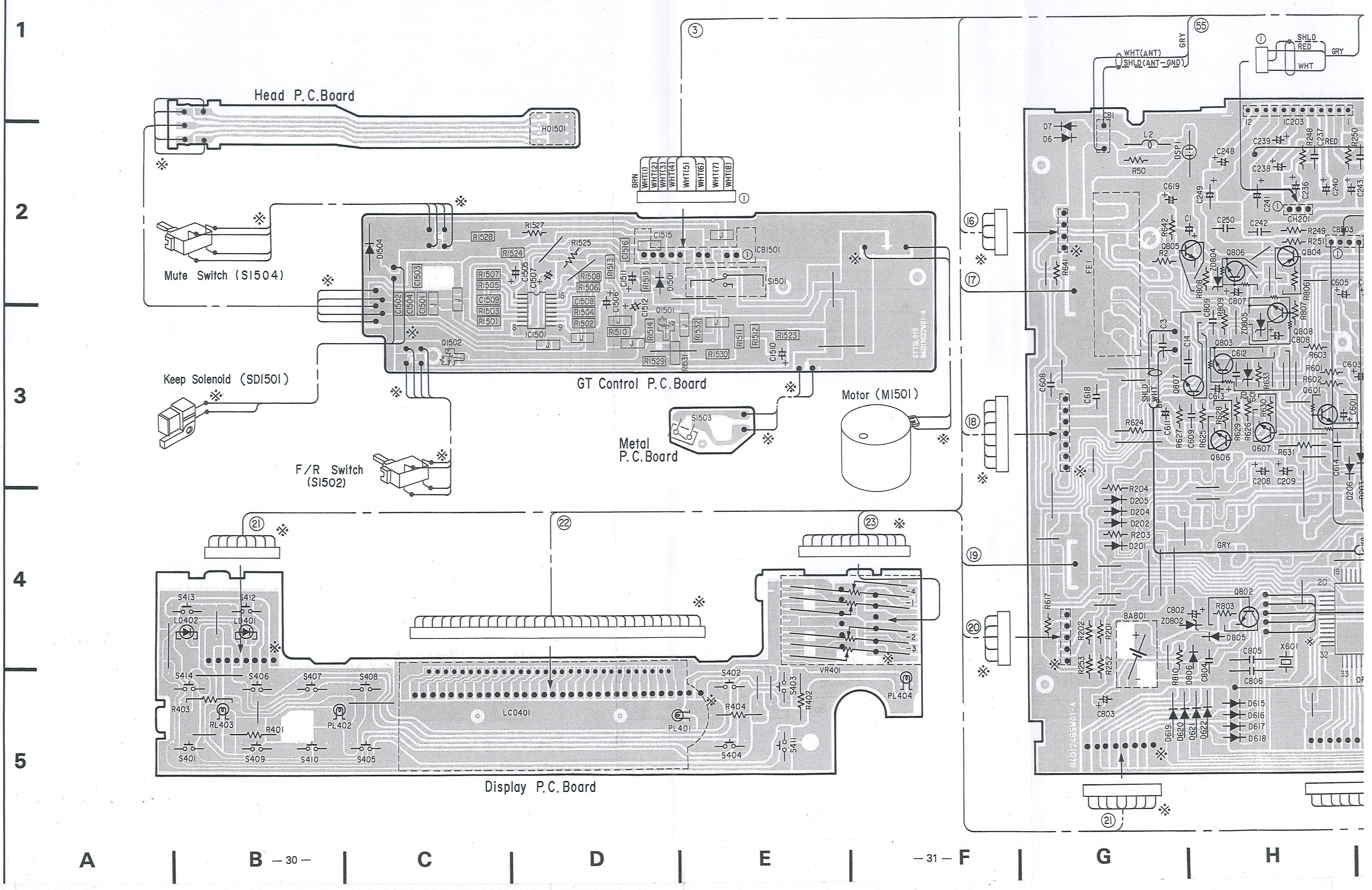
| | |
|---|---|
| BLU | Blue |
| GRN | Green |
| BLK | Black |
| GRY | Gray |
| WHT | White |
| RED | Red |
| BRN | Brown |
| ORG | Orange |
| YEL | Yellow |
| PNK | Pink |
| VIO | Violet |
| GRN/WHT | Green/White |
| GRY/WHT | Gray/White |
| GRY/YEL | Gray/Yellow |
| GRN/YEL | Green/Yellow |
| SHLD | Shield |

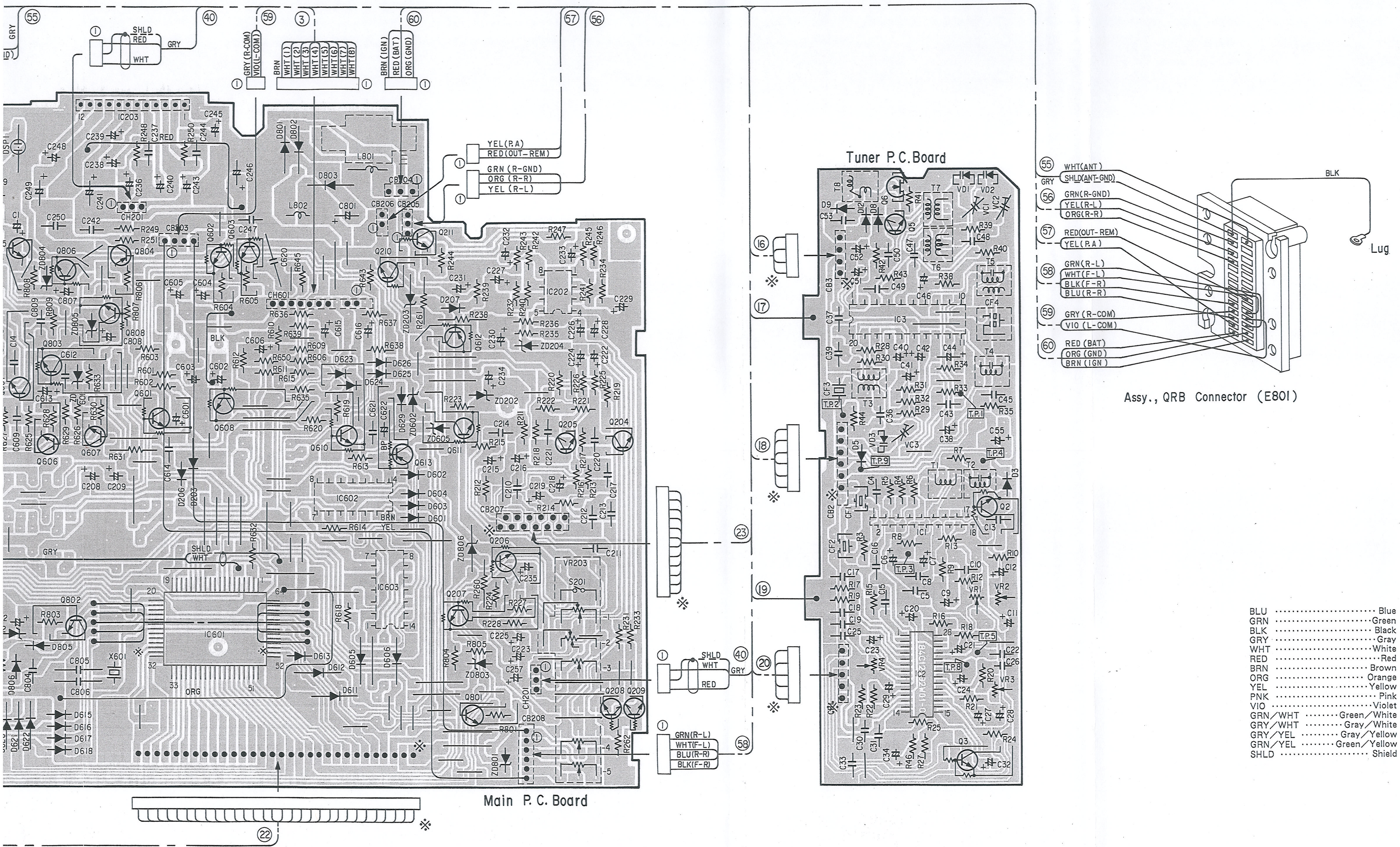
● : For 7179MS model only
▲ : For 7179LS model only
Others : Common.

7179MS/
LS/ES

7179MS/
LS/ES

## Parts Layout on P.C. Boards and Wiring Diagram ●For 7179ES model only


1
2
3
4
5
A
B
C
D
E
F
G
H
Head P.C.Board
HD1501
Mute Switch (S1504)
GT Control P.C.Board
IC1501
ICB1501
S1501
Q1501
Q1502
D1501
D1504
Keep Solenoid (SD1501)
F/R Switch
(S1502)
S1503
Metal
P.C.Board
Motor (M1501)
BRN
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
WHT(6)
WHT(7)
WHT(8)
③
①
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
(55)
WHT(ANT)
SHLD(ANT-GND)
GRY
SHLD
RED
WHT
IC203
CH201
FE1
BA801
X601
Q601
Q602
Q606
Q607
Q802
Q803
Q804
Q805
Q806
Q807
Q808
Display P.C.Board
LCD401
VR401
S401
S402
S403
S404
S405
S406
S407
S408
S409
S410
S411
S412
S413
S414
LD401
LD402
PL401
PL402
PL404
RL403
R401
R402
R403
R404
※


Main P. C. Board
Tuner P. C. Board
Assy., QRB Connector (E801)
Lug
BLK
WHT(ANT)
SHLD(ANT-GND)
GRN(R-GND)
YEL(R-L)
ORG(R-R)
RED(OUT-REM)
YEL(P.A)
GRN(R-L)
WHT(F-L)
BLK(F-R)
BLU(R-R)
GRY(R-COM)
VIO(L-COM)
RED(BAT)
ORG(GND)
BRN(IGN)
YEL(P.A)
RED(OUT-REM)
GRN(R-GND)
ORG(R-R)
YEL(R-L)
SHLD
RED
WHT
GRY
BRN
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
WHT(6)
WHT(7)
WHT(8)
BRN(IGN)
RED(BAT)
ORG(GND)
GRY(R-COM)
VIO(L-COM)
IC601
IC602
IC603
IC202
IC203
IC1
IC2
IC3
CH601
CH201
CB207
CB208
VR203
S201
X601
(55)
(40)
(59)
(3)
(60)
(57)
(56)
(58)
(16)
(17)
(18)
(19)
(20)
(22)
(23)
H
I
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K
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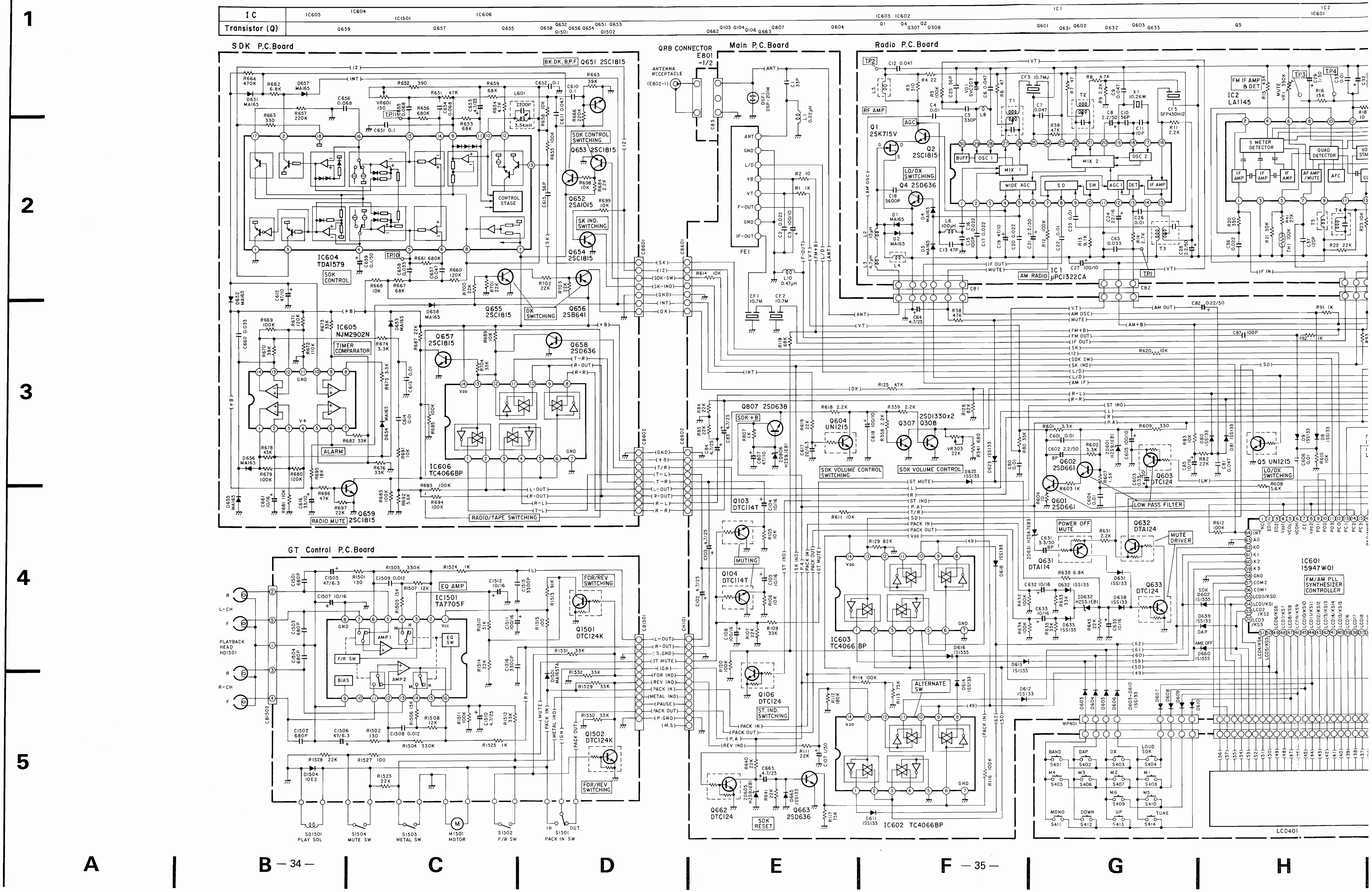
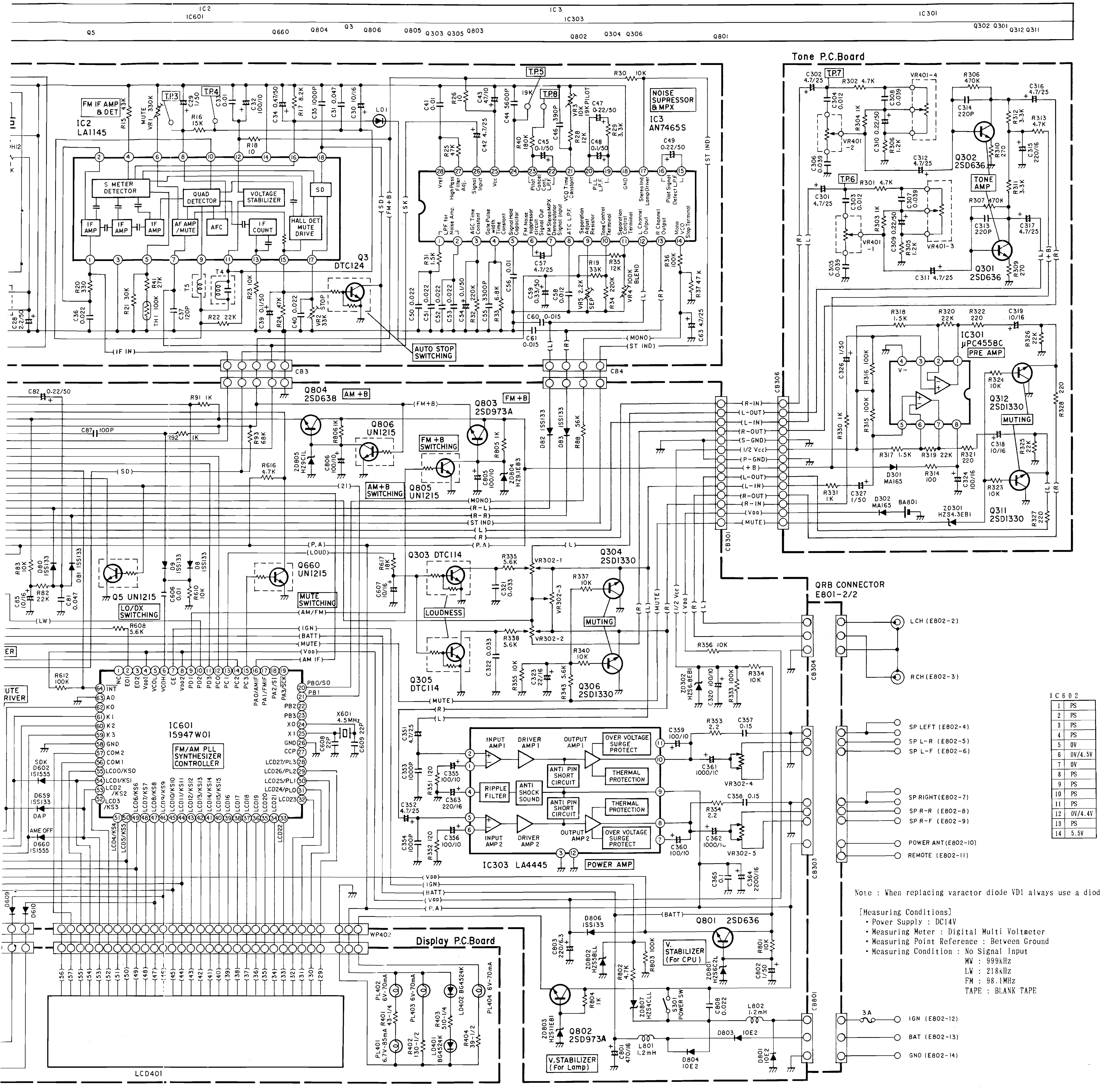
| | |
|---|---|
| BLU | Blue |
| GRN | Green |
| BLK | Black |
| GRY | Gray |
| WHT | White |
| RED | Red |
| BRN | Brown |
| ORG | Orange |
| YEL | Yellow |
| PNK | Pink |
| VIO | Violet |
| GRN/WHT | Green/White |
| GRY/WHT | Gray/White |
| GRY/YEL | Gray/Yellow |
| GRN/YEL | Green/Yellow |
| SHLD | Shield |

# Schematic Diagram ● For 7179MS Model Only



IC
Transistor (Q)
SDK P.C.Board
QRB CONNECTOR E801 -1/2
Main P.C.Board
Radio P.C.Board
GT Control P.C.Board
IC604 TDA1579
SDK CONTROL
IC605 NJM2902N
TIMER COMPARATOR
ALARM
IC606 TC4066BP
RADIO MUTE
RADIO/TAPE SWITCHING
DK SWITCHING
SDK CONTROL SWITCHING
SK IND. SWITCHING
ANTENNA RECEPTACLE
FE1
IC1 μPC1322CA
IC2 LA1145
FM IF AMP & DET
RF AMP
AGC
LO/DX SWITCHING
AM RADIO
IC1501 TA7705F
EQ AMP
FOR/REV SWITCHING
PLAYBACK HEAD HD1501
L-CH
R-CH
SD1501 PLAY SOL
S1504 MUTE SW
S1503 METAL SW
M1501 MOTOR
S1502 F/R SW
S1501 PACK IN SW
SDK VOLUME CONTROL SWITCHING
SDK VOLUME CONTROL
MUTING
ST. IND. SWITCHING
IC603 TC4066BP
IC602 TC4066BP
ALTERNATE SW
SDK RESET
LOW PASS FILTER
POWER OFF MUTE
MUTE DRIVER
IC601 15947W01
FM/AM PLL SYNTHESIZER CONTROLLER
LCD401
BAND S401
DAP S402
DX S403
LOUD SDK S404
M4 S405
M3 S406
M2 S407
M1 S408
M6 S409
M5 S410
MONO S411
DOWN S412
UP S413
TUNE S414
1
2
3
4
5
A
B
C
D
E
F
G
H


IC2 IC601
IC3 IC303
IC301
FM IF AMP & DET
IC2 LA1145
S METER DETECTOR
QUAD DETECTOR
VOLTAGE STABILIZER
SD
IF AMP
AF AMP /MUTE
AFC
IF COUNT
HALL DET MUTE DRIVE
Q3 DTC124
AUTO STOP SWITCHING
NOISE SUPRESSOR & MPX
IC3 AN7465S
T.P.3
T.P.4
T.P.5
T.P.8
Tone P.C.Board
T.P.7
T.P.6
Q302 2SD636
TONE AMP
Q301 2SD636
IC301 μPC4558C
PRE AMP
Q312 2SD1330
MUTING
Q311 2SD1330
CB3
CB4
CB306
CB301
Q804 2SD638
AM+B
Q803 2SD973A
FM+B
Q806 UN1215
FM+B SWITCHING
AM+B SWITCHING
Q805 UN1215
Q303 DTC114
LOUDNESS
Q304 2SD1330
MUTING
Q305 DTC114
Q306 2SD1330
Q5 UN1215
LO/DX SWITCHING
Q660 UN1215
MUTE SWITCHING
QRB CONNECTOR E801-2/2
LCH (E802-2)
RCH (E802-3)
CB304
SP LEFT (E802-4)
SP L-R (E802-5)
SP L-F (E802-6)
SP RIGHT (E802-7)
SP R-R (E802-8)
SP R-F (E802-9)
POWER ANT (E802-10)
REMOTE (E802-11)
CB303
IC601 15947W01
FM/AM PLL SYNTHESIZER CONTROLLER
X601 4.5MHz
INPUT AMP1
DRIVER AMP1
OUTPUT AMP1
OVER VOLTAGE SURGE PROTECT
RIPPLE FILTER
ANTI SHOCK SOUND
ANTI PIN SHORT CIRCUIT
THERMAL PROTECTION
INPUT AMP2
DRIVER AMP2
OUTPUT AMP2
IC303 LA4445
POWER AMP
Display P.C.Board
WP402
LCD401
Q801 2SD636
V. STABILIZER (For CPU)
Q802 2SD973A
V. STABILIZER (For Lamp)
CB801
3A
IGN (E802-12)
BAT (E802-13)
GND (E802-14)

Q1

| | |
|---|---|
| G | 0.6V |
| D | 0V |
| S | 0V |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q2 | 1.2V | 8.5V | 0.6V | |
| Q3 | 0.3V | 3.8V | 0V | |
| Q4 | 0V | 4.7V | 0V | |
| Q5 | 0V | 0V | 2.2V/0V | L/D |
| Q103 | 0V | 0V | 1.2V/0V | FF.REW/PLAY |
| Q104 | 0V | 0V | 1.2V/0V | FF.REW/PLAY |
| Q106 | 0V | 12.6V/0V | 0.7V/8.2V | ST/MO |
| Q301 | 0.1V | 2.6V | 0.8V | |
| Q302 | 0.1V | 2.6V | 0.8V | |
| Q304 | 0V | 0V | 0V | LOUD ON/OFF |
| Q305 | 0V/1.4V | 0.2V/0V | 0V | LOUD ON/OFF |
| Q306 | 0V | 0V | 0V | LOUD ON/OFF |
| Q307 | 0V/0.1V | 0V | 0V/0.6V | SDK ON/OFF |
| Q308 | 0V | 0V | 0V/0.6V | SDK ON/OFF |
| Q311 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q312 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q601 | 0V | 3.8V | 0.6V | |
| Q602 | 0.6V | 9.5V | 1V | |
| Q603 | 0V | 0V | 4.5V | |
| Q604 | 0V | 2.2V | 0.2V | |
| Q631 | 12.8V | 0.2V | 12.8V | |
| Q632 | 13.2V | 0.2V | 12.8V | |
| Q633 | 0V | 13.2V | 0V | BUZ ON/OFF |
| Q651 | 0V | 0V/5.8V | 0.6V/0.1V | |
| Q652 | 8.4V/8.4V | 8.4V/0V | 7.7V/8.2V | SDK ON/OFF |
| Q653 | 0V | 0V/8.2V | 0.7V/0V | SDK ON/OFF |
| Q654 | 0V | 0V/3.2V | 0.6V/0.1V | SK ON/OFF |
| Q655 | 0V | 5.8V/5.8V | 0.1V/0.1V | DK ON/OFF |
| Q656 | 0V | 0V | 0.6V/0.6V | DK ON/OFF |
| Q657 | 0V | 0V/5.7V | 0.6V/0V | TAPE/RADIO |
| Q658 | 0V | 4.5V/0V | 0V/0.6V | TAPE/RADIO |
| Q659 | 0V | 4.4V | 0.6V | |
| Q660 | 0V | 10.9V/0V | 0V/4.6V | MUTE ON/OFF |
| Q662 | 0V | 8.5V/0V | 0V/5V | |
| Q663 | 0V | 0V/4.5V | 0V | |
| Q801 | 5.5V | 13.2V | 6.1V | |
| Q802 | 10.4V | 13.7V | 11V | |
| Q803 | 8.6V/0V | 13.7V/13.7V | 9.2V/0V | FM/LW.MW |
| Q804 | 1.2V/4.1V | 9.2V/0.1V | 0V/0V | FM/LW.MW |
| Q805 | 0V | 9.1V/0V | 0.8V/4V | FM/MW.LW |
| Q806 | 0V | 0V/9.6V | 8.5V/0V | FM/MW.LW |
| Q807 | 8.4V | 13.7V | 9.1V | |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q1501 | 0V | 0V/2.5V | 4.46V/0V | FOR/REV |
| Q1502 | 0V | 0V/4.36V | 13.9V/0V | FOR/REV |

IC1

| | | | |
|---|---|---|---|
| 1 | 3.5V | 16 | 3.6V |
| 2 | 3.5V | 17 | 4.8V |
| 3 | 0V | 18 | 4.7V |
| 4 | 1.2V | 19 | 6.1V |
| 5 | 1.2V | 20 | 6.2V |
| 6 | 2V | 21 | 8.4V |
| 7 | 0.2V | 22 | 8.4V |
| 8 | 0.1V | 23 | 8.8V |
| 9 | 4.8V | 24 | 3.6V |
| 10 | 3.4V | 25 | 0V |
| 11 | 0V | 26 | 8.5V |
| 12 | 3.1V | 27 | 8.5V |
| 13 | 3.1V | 28 | 6.1V |
| 14 | 8.8V | 29 | 6.1V |
| 15 | 3.6V | 30 | 3.3V |

IC2

| | |
|---|---|
| 1 | 2.7V |
| 2 | 2.7V |
| 3 | 0V |
| 4 | 4V |
| 5 | 4.8V |
| 6 | 2.1V |
| 7 | 5V |
| 8 | 4.9V |
| 9 | 4.9V |
| 10 | 4.9V |
| 11 | 4.9V |
| 12 | 8.3V |
| 13 | 0V |
| 14 | 0V |
| 15 | 0V |
| 16 | 4.7V |
| 17 | 4.6V |
| 18 | 4.7V |

IC3

| | | | |
|---|---|---|---|
| 1 | 2.4V | 15 | 2.5V |
| 2 | 1.7V | 16 | 2.5V |
| 3 | 1.3V | 17 | 8.2V/0.7V |
| 4 | 0V | 18 | 0V |
| 5 | 2.4V | 19 | 2.5V |
| 6 | 1.2V | 20 | 2.4V |
| 7 | 1.1V | 21 | 1.2V |
| 8 | 1.8V | 22 | 1.8V |
| 9 | 0.1V | 23 | 1.9V |
| 10 | 2.5V | 24 | 2.3V |
| 11 | 1.7V | 25 | 8.4V |
| 12 | 2.8V | 26 | 2.1V |
| 13 | 2.8V | 27 | 2.2V |
| 14 | 2.2V/0V | 28 | 2.4V |

IC303

| | |
|---|---|
| 1 | 1.2V |
| 2 | 0V |
| 3 | 0V |
| 4 | 13.5V |
| 5 | 0V |
| 6 | 1.2V |
| 7 | 12.6V |
| 8 | 7.1V |
| 9 | 13.9V |
| 10 | 7.2V |
| 11 | 12.6V |
| 12 | 0V |

IC301

| | |
|---|---|
| 1 | 6.9V |
| 2 | 6.8V |
| 3 | 5.9V |
| 4 | 0V |
| 5 | 6.3V |
| 6 | 6.7V |
| 7 | 6.7V |
| 8 | 12.9V |

IC601

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NC | | 17 | NC | | 33 | PS | | 49 | PS | |
| 2 | 1V/0.3V | | 18 | NC | | 34 | PS | | 50 | PS | |
| 3 | NC | | 19 | NC | | 35 | PS | | 51 | PS | |
| 4 | 4.7V/4.9V | | 20 | 0V/4.6V | ST/MO | 36 | PS | | 52 | PS | |
| 5 | NC | | 21 | 2.2V/0V | L/D | 37 | PS | | 53 | PS | |
| 6 | 2V/0V | | 22 | NC | | 38 | PS | | 54 | PS | |
| 7 | 4.4V | | 23 | NC | | 39 | PS | | 55 | PS | |
| 8 | 4.7V | | 24 | 2.9V | | 40 | PS | | 56 | PS | |
| 9 | 0V/4.6V | FM/LW.MW | 25 | 2.5V | | 41 | PS | | 57 | PS | |
| 10 | 4.5V/0V | LW/FM.MW | 26 | 0V | | 42 | PS | | 58 | 0V | |
| 11 | 4.6V/0V | SDK ON/OFF | 27 | NC | | 43 | PS | | 59 | PS | |
| 12 | 4.7V | | 28 | PS | | 44 | PS | | 60 | PS | |
| 13 | 0V/4.8V | LOUD ON/OFF | 29 | PS | | 45 | PS | | 61 | PS | |
| 14 | 0V/4.6V | T/R | 30 | PS | | 46 | PS | | 62 | PS | |
| 15 | 4.6V/0V | MUTE ON/OFF | 31 | PS | | 47 | PS | | 63 | 4.7V | |
| 16 | | | 32 | PS | | 48 | PS | | 64 | 0V/4.7V | SK ON/OFF |

IC602

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | 0V |
| 6 | 0V/4.5V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V/4.4V |
| 13 | PS |
| 14 | 5.5V |

IC603

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | |
| 6 | 0V/3.6V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V |
| 13 | 0V |
| 14 | 5.5V |

IC604 (SK/DK)

| | |
|---|---|
| 1 | 0V |
| 2 | 0.1V/5.9V |
| 3 | 4.5V |
| 4 | 6.9V |
| 5 | 4.2V |
| 6 | 4.2V |
| 7 | 8.4V |
| 8 | 4.2V |
| 9 | 5.2V |
| 10 | 4.2V |
| 11 | 5.2V/4.6V |
| 12 | 4V |
| 13 | 4.3V |
| 14 | 4.2V |
| 15 | 4.4V |
| 16 | 0V/6.9V |
| 17 | 3.4V |
| 18 | 0V |

IC605

| | |
|---|---|
| 1 | 7.2V |
| 2 | 1.5V |
| 3 | 5.2V |
| 4 | 8.4V |
| 5 | 5.2V |
| 6 | 0.6V |
| 7 | 7.2V |
| 8 | 0.6V |
| 9 | 5.2V |
| 10 | 0V |
| 11 | 0V |
| 12 | 2.7V |
| 13 | 6.6V |
| 14 | 0.6V |

IC606 (TAPE/RADIO)

| | |
|---|---|
| 1 | 0V |
| 2 | 0V |
| 3 | 0V |
| 4 | 0V |
| 5 | 0V/5.7V |
| 6 | 0V/5.7V |
| 7 | 0V |
| 8 | 0V |
| 9 | 0V |
| 10 | 0V |
| 11 | 0V |
| 12 | 4.5V/0V |
| 13 | 4.5V/0V |
| 14 | 5.7V |

IC1501

| | |
|---|---|
| 1 | 12.9V |
| 2 | 2.97V |
| 3 | FOR:0V REV:2.48V |
| 4 | 2.88V |
| 5 | 2.85V |
| 6 | 2.85V |
| 7 | 2.85V |
| 8 | 0V |
| 9 | 2.84V |
| 10 | |
| 11 | 2.85V |
| 12 | 2.85V |
| 13 | 2.85V |
| 14 | 2.88V |
| 15 | MET:9.3V NOR:0V |
| 16 | 2.96V |

Note : When replacing varactor diode VD1 always use a diode with the same rank.

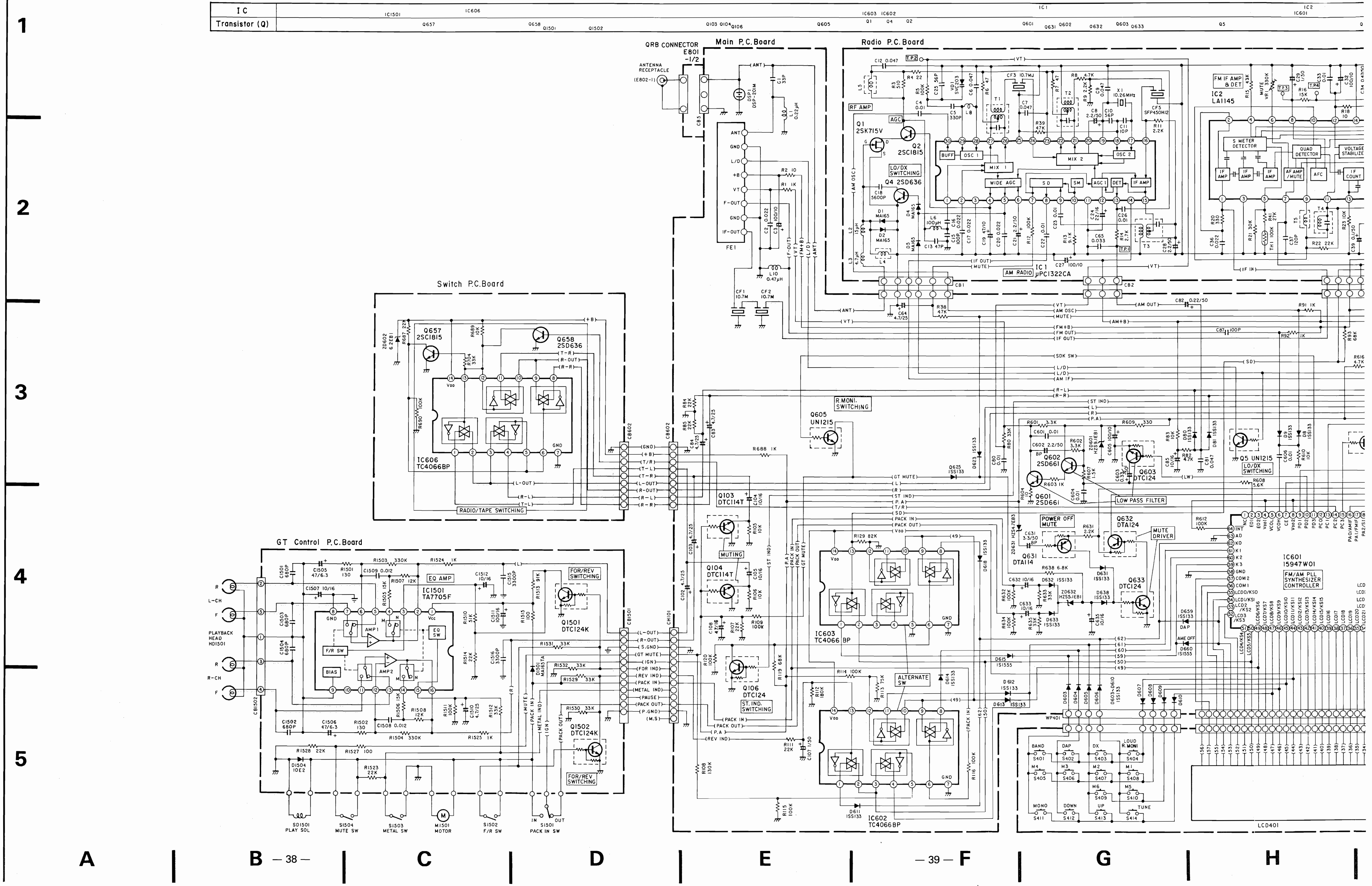
[Measuring Conditions]

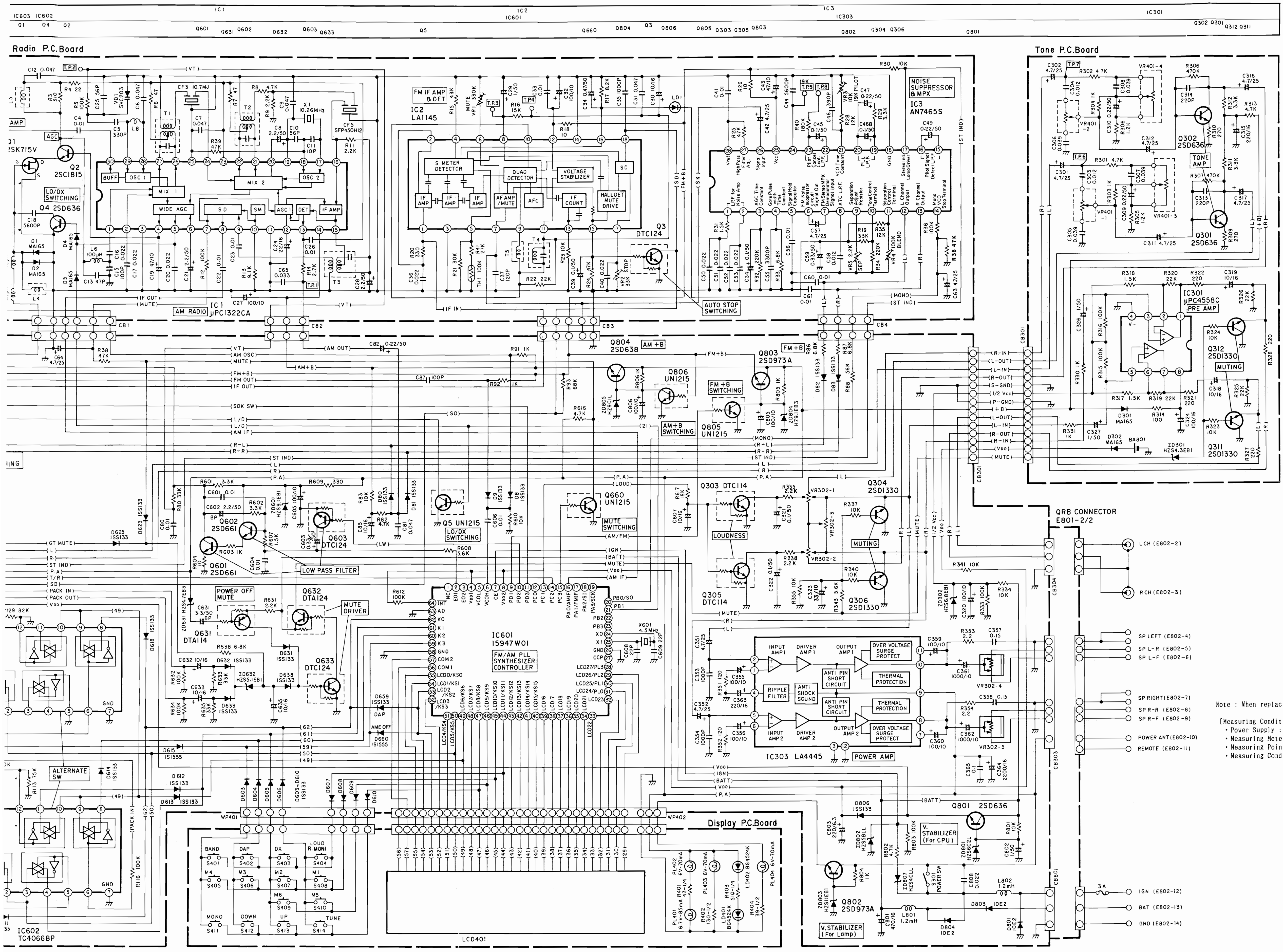
- Power Supply : DC14V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : No Signal Input
  MW : 999kHz
  LW : 218kHz
  FM : 98.1MHz
  TAPE : BLANK TAPE

**NOTES:**

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

# Schematic Diagram ●For 7179LS Model Only


1
2
3
4
5
IC
Transistor (Q)
IC1501
IC606
IC603 IC602
IC1
IC2
IC601
Q657
Q658
Q1501
Q1502
Q103 Q104 Q106
Q605
Q1 Q4 Q2
Q601 Q631 Q602 Q632 Q603 Q633
Q5
QRB CONNECTOR
E801 -1/2
ANTENNA RECEPTACLE
(E802-1)
Main P.C.Board
Radio P.C.Board
Switch P.C.Board
GT Control P.C.Board
FE1
RF AMP
AGC
Q1 2SK715V
Q2 2SC1815
LO/DX SWITCHING
Q4 2SD636
AM OSC
BUFF
OSC 1
MIX 1
MIX 2
OSC 2
WIDE AGC
SD
SM
AGC1
DET
IF AMP
AM RADIO
IC1 μPC1322CA
FM IF AMP & DET
IC2 LA1145
S METER DETECTOR
QUAD DETECTOR
VOLTAGE STABILIZER
AF AMP /MUTE
AFC
IF COUNT
Q657 2SC1815
Q658 2SD636
IC606 TC4066BP
RADIO/TAPE SWITCHING
R.MONI. SWITCHING
Q605 UN1215
Q103 DTC114T
MUTING
Q104 DTC114T
Q106 DTC124
ST. IND. SWITCHING
IC603 TC4066 BP
ALTERNATE SW
IC602 TC4066BP
Q602 2SD661
Q601 2SD661
Q603 DTC124
LOW PASS FILTER
POWER OFF MUTE
Q631 DTA114
Q632 DTA124
MUTE DRIVER
Q633 DTC124
Q5 UN1215
LO/DX SWITCHING
IC601 15947W01
FM/AM PLL SYNTHESIZER CONTROLLER
EQ AMP
IC1501 TA7705F
FOR/REV SWITCHING
Q1501 DTC124K
Q1502 DTC124K
AMP1
AMP2
F/R SW
BIAS
EQ SW
PLAYBACK HEAD HD1501
L-CH
R-CH
SD1501 PLAY SOL
S1504 MUTE SW
S1503 METAL SW
M1501 MOTOR
S1502 F/R SW
S1501 PACK IN SW
BAND S401
DAP S402
DX S403
LOUD R.MONI S404
M4 S405
M3 S406
M2 S407
M1 S408
M6 S409
M5 S410
MONO S411
DOWN S412
UP S413
TUNE S414
LCD401
CB602
CB1501
CM101
CB1502
CB1
CB2
WP401
A
B
C
D
E
F
G
H


Radio P.C.Board
Tone P.C.Board
Display P.C.Board
QRB CONNECTOR E801-2/2
IC1 μPC1322CA AM RADIO
IC2 LA1145 FM IF AMP & DET
IC3 AN7465S NOISE SUPPRESSOR & MPX
IC301 μPC4558C PRE AMP
IC303 LA4445 POWER AMP
IC601 15947W01 FM/AM PLL SYNTHESIZER CONTROLLER
IC602 TC4066BP
LCD401
LO/DX SWITCHING
AUTO STOP SWITCHING
FM+B SWITCHING
AM+B SWITCHING
LOW PASS FILTER
POWER OFF MUTE
MUTE DRIVER
MUTE SWITCHING
LOUDNESS
MUTING
TONE AMP
ALTERNATE SW
V.STABILIZER (For CPU)
V.STABILIZER (For Lamp)
LCH (E802-2)
RCH (E802-3)
SP LEFT (E802-4)
SP L-R (E802-5)
SP L-F (E802-6)
SP RIGHT (E802-7)
SP R-R (E802-8)
SP R-F (E802-9)
POWER ANT (E802-10)
REMOTE (E802-11)
IGN (E802-12)
BAT (E802-13)
GND (E802-14)

Note : When replacing varactor diode VD1 always use a diode with the same rank.

[Measuring Conditions]
- Power Supply : DC14V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : No Signal Input
  MW : 999kHz
  LW : 218kHz
  FM : 98.1MHz
  TAPE : BLANK TAPE

Q1

| | |
|---|---|
| G | 0.6V |
| D | 0V |
| S | 0V |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q2 | 1.2V | 8.5V | 0.6V | |
| Q3 | 0.3V | 3.8V | 0V | |
| Q4 | 0V | 4.7V | 0V | |
| Q5 | 0V | 0V | 2.2V/0V | L/D |
| Q103 | 0V | 0V | 1.2V/0V | FF.REW/PLAY |
| Q104 | 0V | 0V | 1.2V/0V | FF.REW/PLAY |
| Q106 | 0V | 12.6V/0V | 0.7V/8.2V | ST/MO |
| Q301 | 0.1V | 2.6V | 0.8V | |
| Q302 | 0.1V | 2.6V | 0.8V | |
| Q303 | 0V | 0V | 0V/1.5V | LOUD ON/OFF |
| Q304 | 0V | 0V | 0V | LOUD ON/OFF |
| Q305 | 0V/1.4V | 0.2V/0V | 0V | LOUD ON/OFF |
| Q306 | 0V | 0V | 0V | LOUD ON/OFF |
| Q311 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q312 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q601 | 0V | 3.8V | 0.6V | |
| Q602 | 0.6V | 9.5V | 1V | |
| Q603 | 0V | 0V | 4.6V/0V | |
| Q605 | 0V | 0V | 0.2V | |
| Q631 | 12.8V | 0.2V | 12.8V | |
| Q632 | 13.2V | 0.2V | 12.8V | |
| Q633 | 0V | 13.2V | 0V | BUZ ON/OFF |
| Q657 | 0V | 0V/5.7V | 0.6V/0V | TAPE/RADIO |
| Q658 | 0V | 4.5V/0V | 0V/0.6V | TAPE/RADIO |
| Q660 | 0V | 10.9V/0V | 0V/4.6V | MUTE ON/OFF |
| Q801 | 5.5V | 13.2V | 6.1V | |
| Q802 | 10.4V | 13.7V | 11V | |
| Q803 | 8.6V/0V | 13.7V/13.7V | 9.2V/0V | FM/LW.MW |
| Q804 | 1.2V/4.1V | 9.2V/0.1V | 0V/0V | FM/LW.MW |
| Q805 | 0V | 9.1V/0V | 0.8V/4V | FM/MW.LW |
| Q806 | 0V | 0V/9.6V | 8.5V/0V | FM/MW.LW |
| Q1501 | 0V | 0V/2.5V | 4.46V/0V | FOR/REV |
| Q1502 | 0V | 0V/4.36V | 13.9V/0V | FOR/REV |

IC1

| | | | |
|---|---|---|---|
| 1 | 3.5V | 16 | 3.6V |
| 2 | 3.5V | 17 | 4.8V |
| 3 | 0V | 18 | 4.7V |
| 4 | 1.2V | 19 | 6.1V |
| 5 | 1.2V | 20 | 6.2V |
| 6 | 2V | 21 | 8.4V |
| 7 | 0.2V | 22 | 8.4V |
| 8 | 0.1V | 23 | 8.8V |
| 9 | 4.8V | 24 | 3.6V |
| 10 | 3.4V | 25 | 0V |
| 11 | 0V | 26 | 8.5V |
| 12 | 3.1V | 27 | 8.5V |
| 13 | 3.1V | 28 | 6.1V |
| 14 | 8.8V | 29 | 6.1V |
| 15 | 3.6V | 30 | 3.3V |

IC2

| | |
|---|---|
| 1 | 2.7V |
| 2 | 2.7V |
| 3 | 0V |
| 4 | 4V |
| 5 | 4.8V |
| 6 | 2.1V |
| 7 | 5V |
| 8 | 4.9V |
| 9 | 4.9V |
| 10 | 4.9V |
| 11 | 4.9V |
| 12 | 8.3V |
| 13 | 0V |
| 14 | 0V |
| 15 | 0V |
| 16 | 4.7V |
| 17 | 4.6V |
| 18 | 4.7V |

IC301

| | |
|---|---|
| 1 | 6.9V |
| 2 | 6.8V |
| 3 | 5.9V |
| 4 | 0V |
| 5 | 6.3V |
| 6 | 6.7V |
| 7 | 6.7V |
| 8 | 12.9V |

IC601

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NC | | 17 | NC | | 33 | PS | | 49 | PS |
| 2 | 1V/0.3V | | 18 | NC | | 34 | PS | | 50 | PS |
| 3 | NC | | 19 | NC | | 35 | PS | | 51 | PS |
| 4 | 4.7V/4.9V | | 20 | 0V/4.6V | ST/MO | 36 | PS | | 52 | PS |
| 5 | NC | | 21 | 2.2V/0V | L/D | 37 | PS | | 53 | PS |
| 6 | 2V/0V | | 22 | NC | | 38 | PS | | 54 | PS |
| 7 | 4.4V | | 23 | NC | | 39 | PS | | 55 | PS |
| 8 | 4.7V | | 24 | 2.9V | | 40 | PS | | 56 | PS |
| 9 | 0V/4.6V | FM/LW.MW | 25 | 2.5V | | 41 | PS | | 57 | PS |
| 10 | 4.5V/0V | LW/FM.MW | 26 | 0V | | 42 | PS | | 58 | 0V |
| 11 | 4.6V/0V | SDK ON/OFF | 27 | NC | | 43 | PS | | 59 | PS |
| 12 | 4.7V | | 28 | PS | | 44 | PS | | 60 | PS |
| 13 | 0V/4.8V | LOUD ON/OFF | 29 | PS | | 45 | PS | | 61 | PS |
| 14 | 0V/4.6V | T/R | 30 | PS | | 46 | PS | | 62 | PS |
| 15 | 4.6V/0V | MUTE ON/OFF | 31 | PS | | 47 | PS | | 63 | 4.7V |
| 16 | | | 32 | PS | | 48 | PS | | 64 | 0V/4. |

IC602

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | 0V |
| 6 | 0V/4.5V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V/4.4V |
| 13 | PS |
| 14 | 5.5V |

IC603

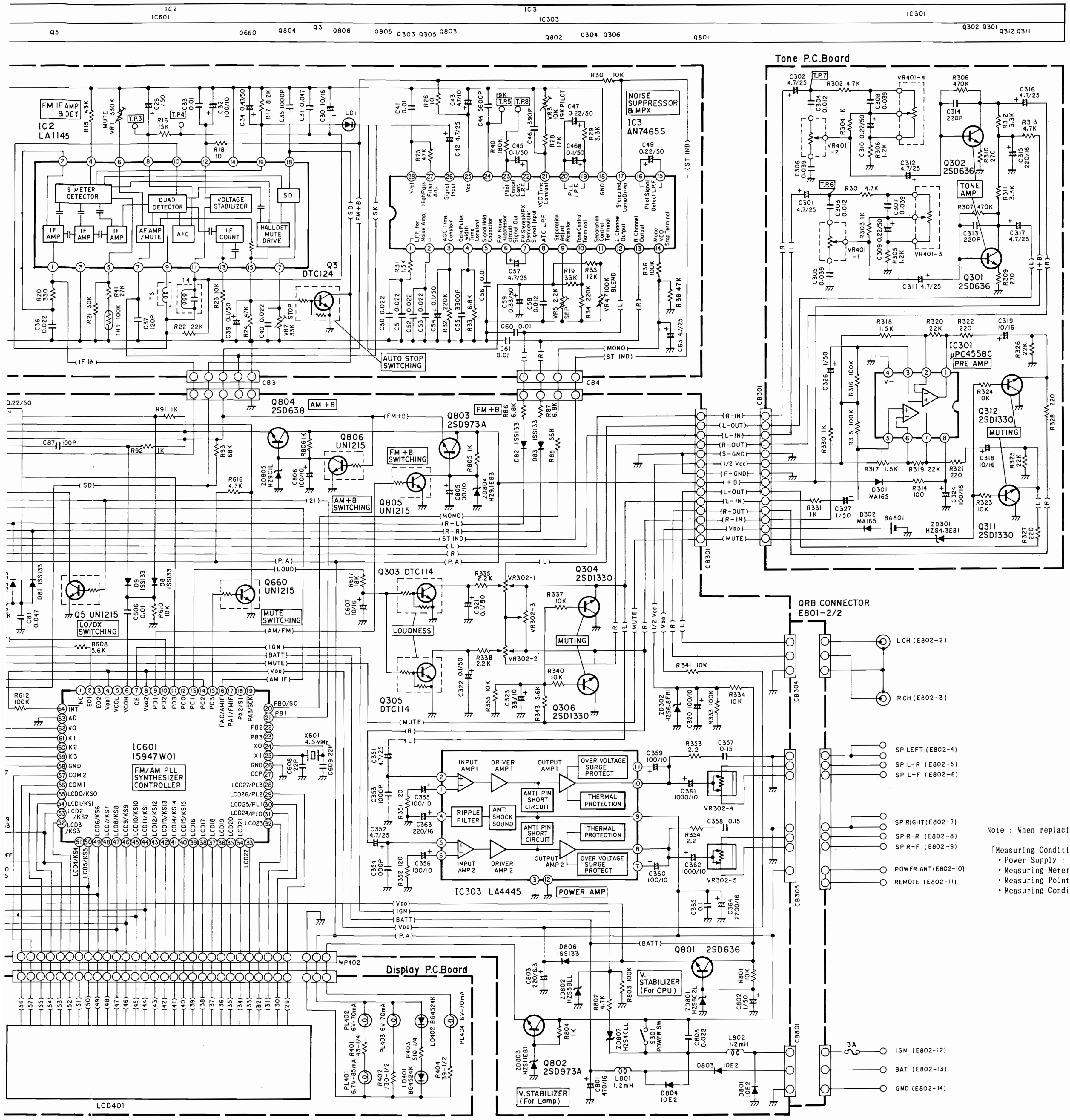
| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | |
| 6 | 0V/3.6V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V |
| 13 | 0V |
| 14 | 5.5V |

IC606 (TAPE/RADIO)

| | |
|---|---|
| 1 | 0V |
| 2 | 0V |
| 3 | 0V |
| 4 | 0V |
| 5 | 0V/5.7V |
| 6 | 0V/5.7V |
| 7 | 0V |
| 8 | 0V |
| 9 | 0V |
| 10 | 0V |
| 11 | 0V |
| 12 | 4.5V/0V |
| 13 | 4.5V/0V |
| 14 | 5.7V |

IC1501

| | |
|---|---|
| 1 | 12.9V |
| 2 | 2.97V |
| 3 | FOR:0V REV:2.48V |
| 4 | 2.88V |
| 5 | 2.85V |
| 6 | 2.85V |
| 7 | 2.85V |
| 8 | 0V |
| 9 | 2.84V |
| 10 | |
| 11 | 2.85V |
| 12 | 2.85V |
| 13 | 2.85V |
| 14 | 2.88V |
| 15 | MET:9.3V NOR:0V |
| 16 | 2.96V |


IC2
IC601
IC3
IC303
IC301
Q5
Q660
Q804
Q3
Q806
Q805
Q303
Q305
Q803
Q802
Q304
Q306
Q801
Q302
Q301
Q312
Q311
FM IF AMP & DET
IC2 LA1145
S METER DETECTOR
QUAD DETECTOR
VOLTAGE STABILIZER
SD
IF AMP
AF AMP /MUTE
AFC
IF COUNT
HALLDET MUTE DRIVE
Q3 DTC124
AUTO STOP SWITCHING
NOISE SUPPRESSOR & MPX
IC3 AN7465S
CB3
CB4
Q804 2SD638
AM+B
Q806 UN1215
AM+B SWITCHING
Q805 UN1215
Q803 2SD973A
FM+B
FM+B SWITCHING
Q5 UN1215
LO/DX SWITCHING
Q660 UN1215
MUTE SWITCHING
Q303 DTC114
Q304 2SD1330
LOUDNESS
MUTING
Q305 DTC114
Q306 2SD1330
IC601 15947W01
FM/AM PLL SYNTHESIZER CONTROLLER
X601 4.5MHz
Tone P.C.Board
Q302 2SD636
TONE AMP
Q301 2SD636
IC301 μPC4558C
PRE AMP
Q312 2SD1330
MUTING
Q311 2SD1330
CB301
QRB CONNECTOR E801-2/2
LCH (E802-2)
RCH (E802-3)
CB304
INPUT AMP1
DRIVER AMP1
OUTPUT AMP1
OVER VOLTAGE SURGE PROTECT
THERMAL PROTECTION
ANTI PIN SHORT CIRCUIT
RIPPLE FILTER
ANTI SHOCK SOUND
INPUT AMP2
DRIVER AMP2
OUTPUT AMP2
IC303 LA4445
POWER AMP
SP LEFT (E802-4)
SP L-R (E802-5)
SP L-F (E802-6)
SP RIGHT (E802-7)
SP R-R (E802-8)
SP R-F (E802-9)
POWER ANT (E802-10)
REMOTE (E802-11)
CB303
WP402
Display P.C.Board
LCD401
Q801 2SD636
V. STABILIZER (For CPU)
Q802 2SD973A
V. STABILIZER (For Lamp)
S301 POWER SW
CB801
IGN (E802-12)
BAT (E802-13)
GND (E802-14)

Q 1

| | |
|---|---|
| G | 0.6V |
| D | 0V |
| S | 0V |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q2 | 1.2V | 8.5V | 0.6V | |
| Q3 | 0.3V | 3.8V | 0V | |
| Q4 | 0V | 4.7V | 0V | |
| Q5 | 0V | 0V | 2.2V/0V | L/D |
| Q103 | 0V | 0V | 1.2V/0V | FF.REW/PLAY |
| Q104 | 0V | 0V | 1.2V/0V | FF.REW/PLAY |
| Q106 | 0V | 12.6V/0V | 0.7V/8.2V | ST/MO |
| Q301 | 0.1V | 2.6V | 0.8V | |
| Q302 | 0.1V | 2.6V | 0.8V | |
| Q303 | 0V | 0V | 0V/1.5V | LOUD ON/OFF |
| Q304 | 0V | 0V | 0V | LOUD ON/OFF |
| Q305 | 0V/1.4V | 0.2V/0V | 0V | LOUD ON/OFF |
| Q306 | 0V | 0V | 0V | LOUD ON/OFF |
| Q311 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q312 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q601 | 0V | 3.8V | 0.6V | |
| Q602 | 0.6V | 9.5V | 1V | |
| Q603 | 0V | 0V | 4.6V/0V | |
| Q605 | 0V | 0V | 0.2V | |
| Q631 | 12.8V | 0.2V | 12.8V | |
| Q632 | 13.2V | 0.2V | 12.8V | |
| Q633 | 0V | 13.2V | 0V | BUZ ON/OFF |
| Q657 | 0V | 0V/5.7V | 0.6V/0V | TAPE/RADIO |
| Q658 | 0V | 4.5V/0V | 0V/0.6V | TAPE/RADIO |
| Q660 | 0V | 10.9V/0V | 0V/4.6V | MUTE ON/OFF |
| Q801 | 5.5V | 13.2V | 6.1V | |
| Q802 | 10.4V | 13.7V | 11V | |
| Q803 | 8.6V/0V | 13.7V/13.7V | 9.2V/0V | FM/LW.MW |
| Q804 | 1.2V/4.1V | 9.2V/0.1V | 0V/0V | FM/LW.MW |
| Q805 | 0V | 9.1V/0V | 0.8V/4V | FM/MW.LW |
| Q806 | 0V | 0V/9.6V | 8.5V/0V | FM/MW.LW |
| Q1501 | 0V | 0V/2.5V | 4.46V/0V | FOR/REV |
| Q1502 | 0V | 0V/4.36V | 13.9V/0V | FOR/REV |

I C 1

| | | | |
|---|---|---|---|
| 1 | 3.5V | 16 | 3.6V |
| 2 | 3.5V | 17 | 4.8V |
| 3 | 0V | 18 | 4.7V |
| 4 | 1.2V | 19 | 6.1V |
| 5 | 1.2V | 20 | 6.2V |
| 6 | 2V | 21 | 8.4V |
| 7 | 0.2V | 22 | 8.4V |
| 8 | 0.1V | 23 | 8.8V |
| 9 | 4.8V | 24 | 3.6V |
| 10 | 3.4V | 25 | 0V |
| 11 | 0V | 26 | 8.5V |
| 12 | 3.1V | 27 | 8.5V |
| 13 | 3.1V | 28 | 6.1V |
| 14 | 8.8V | 29 | 6.1V |
| 15 | 3.6V | 30 | 3.3V |

I C 3

| | | | |
|---|---|---|---|
| 1 | 2.4V | 15 | 2.5V |
| 2 | 1.7V | 16 | 2.5V |
| 3 | 1.3V | 17 | 8.2V/0.7V |
| 4 | 0V | 18 | 0V |
| 5 | 2.4V | 19 | 2.5V |
| 6 | 1.2V | 20 | 2.4V |
| 7 | 1.1V | 21 | 1.2V |
| 8 | 1.8V | 22 | 1.8V |
| 9 | 0.1V | 23 | 1.9V |
| 10 | 2.5V | 24 | 2.3V |
| 11 | 1.7V | 25 | 8.4V |
| 12 | 2.8V | 26 | 2.1V |
| 13 | 2.8V | 27 | 2.2V |
| 14 | 2.2V/0V | 28 | 2.4V |

I C 2

| | |
|---|---|
| 1 | 2.7V |
| 2 | 2.7V |
| 3 | 0V |
| 4 | 4V |
| 5 | 4.8V |
| 6 | 2.1V |
| 7 | 5V |
| 8 | 4.9V |
| 9 | 4.9V |
| 10 | 4.9V |
| 11 | 4.9V |
| 12 | 8.3V |
| 13 | 0V |
| 14 | 0V |
| 15 | 0V |
| 16 | 4.7V |
| 17 | 4.6V |
| 18 | 4.7V |

I C 3 0 1

| | |
|---|---|
| 1 | 6.9V |
| 2 | 6.8V |
| 3 | 5.9V |
| 4 | 0V |
| 5 | 6.3V |
| 6 | 6.7V |
| 7 | 6.7V |
| 8 | 12.9V |

I C 3 0 3

| | |
|---|---|
| 1 | 1.2V |
| 2 | 0V |
| 3 | 0V |
| 4 | 13.5V |
| 5 | 0V |
| 6 | 1.2V |
| 7 | 12.6V |
| 8 | 7.1V |
| 9 | 13.9V |
| 10 | 7.2V |
| 11 | 12.6V |
| 12 | 0V |

I C 6 0 1

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NC | | 17 | NC | | 33 | PS | | 49 | PS | |
| 2 | 1V/0.3V | | 18 | NC | | 34 | PS | | 50 | PS | |
| 3 | NC | | 19 | NC | | 35 | PS | | 51 | PS | |
| 4 | 4.7V/4.9V | | 20 | 0V/4.6V | ST/MO | 36 | PS | | 52 | PS | |
| 5 | NC | | 21 | 2.2V/0V | L/D | 37 | PS | | 53 | PS | |
| 6 | 2V/0V | | 22 | NC | | 38 | PS | | 54 | PS | |
| 7 | 4.4V | | 23 | NC | | 39 | PS | | 55 | PS | |
| 8 | 4.7V | | 24 | 2.9V | | 40 | PS | | 56 | PS | |
| 9 | 0V/4.6V | FM/LW.MW | 25 | 2.5V | | 41 | PS | | 57 | PS | |
| 10 | 4.5V/0V | LW/FM.MW | 26 | 0V | | 42 | PS | | 58 | 0V | |
| 11 | 4.6V/0V | SDK ON/OFF | 27 | NC | | 43 | PS | | 59 | PS | |
| 12 | 4.7V | | 28 | PS | | 44 | PS | | 60 | PS | |
| 13 | 0V/4.8V | LOUD ON/OFF | 29 | PS | | 45 | PS | | 61 | PS | |
| 14 | 0V/4.6V | T/R | 30 | PS | | 46 | PS | | 62 | PS | |
| 15 | 4.6V/0V | MUTE ON/OFF | 31 | PS | | 47 | PS | | 63 | 4.7V | |
| 16 | | | 32 | PS | | 48 | PS | | 64 | 0V/4.7V | SK ON/OFF |

I C 6 0 2

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | 0V |
| 6 | 0V/4.5V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V/4.4V |
| 13 | PS |
| 14 | 5.5V |

I C 6 0 3

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | |
| 6 | 0V/3.6V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V |
| 13 | 0V |
| 14 | 5.5V |

I C 6 0 6 (TAPE/RADIO)

| | |
|---|---|
| 1 | 0V |
| 2 | 0V |
| 3 | 0V |
| 4 | 0V |
| 5 | 0V/5.7V |
| 6 | 0V/5.7V |
| 7 | 0V |
| 8 | 0V |
| 9 | 0V |
| 10 | 0V |
| 11 | 0V |
| 12 | 4.5V/0V |
| 13 | 4.5V/0V |
| 14 | 5.7V |

I C 1 5 0 1

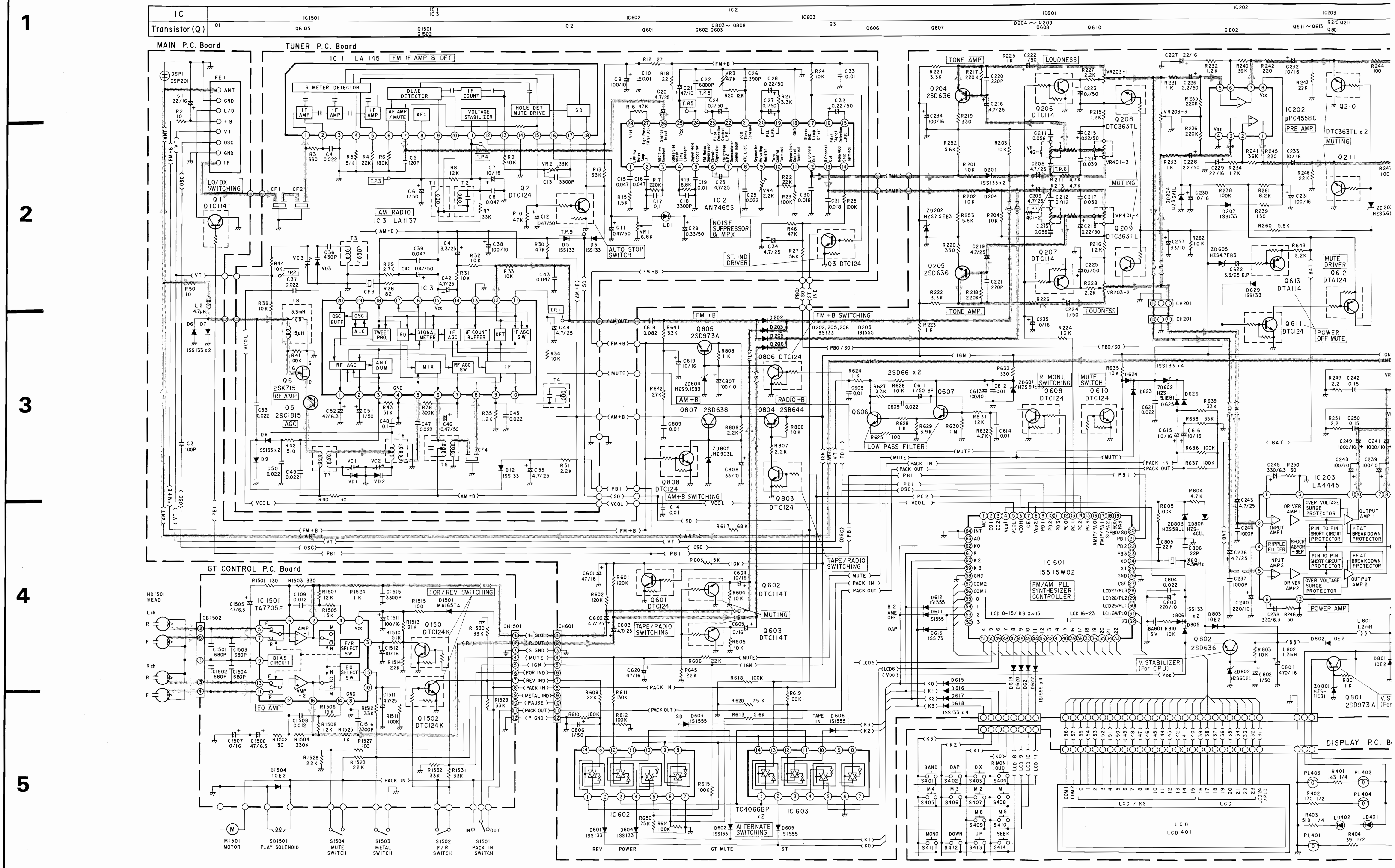
| | |
|---|---|
| 1 | 12.9V |
| 2 | 2.97V |
| 3 | FOR:0V REV:2.48V |
| 4 | 2.88V |
| 5 | 2.85V |
| 6 | 2.85V |
| 7 | 2.85V |
| 8 | 0V |
| 9 | 2.84V |
| 10 | |
| 11 | 2.85V |
| 12 | 2.85V |
| 13 | 2.85V |
| 14 | 2.88V |
| 15 | MET:9.3V NOR:0V |
| 16 | 2.96V |

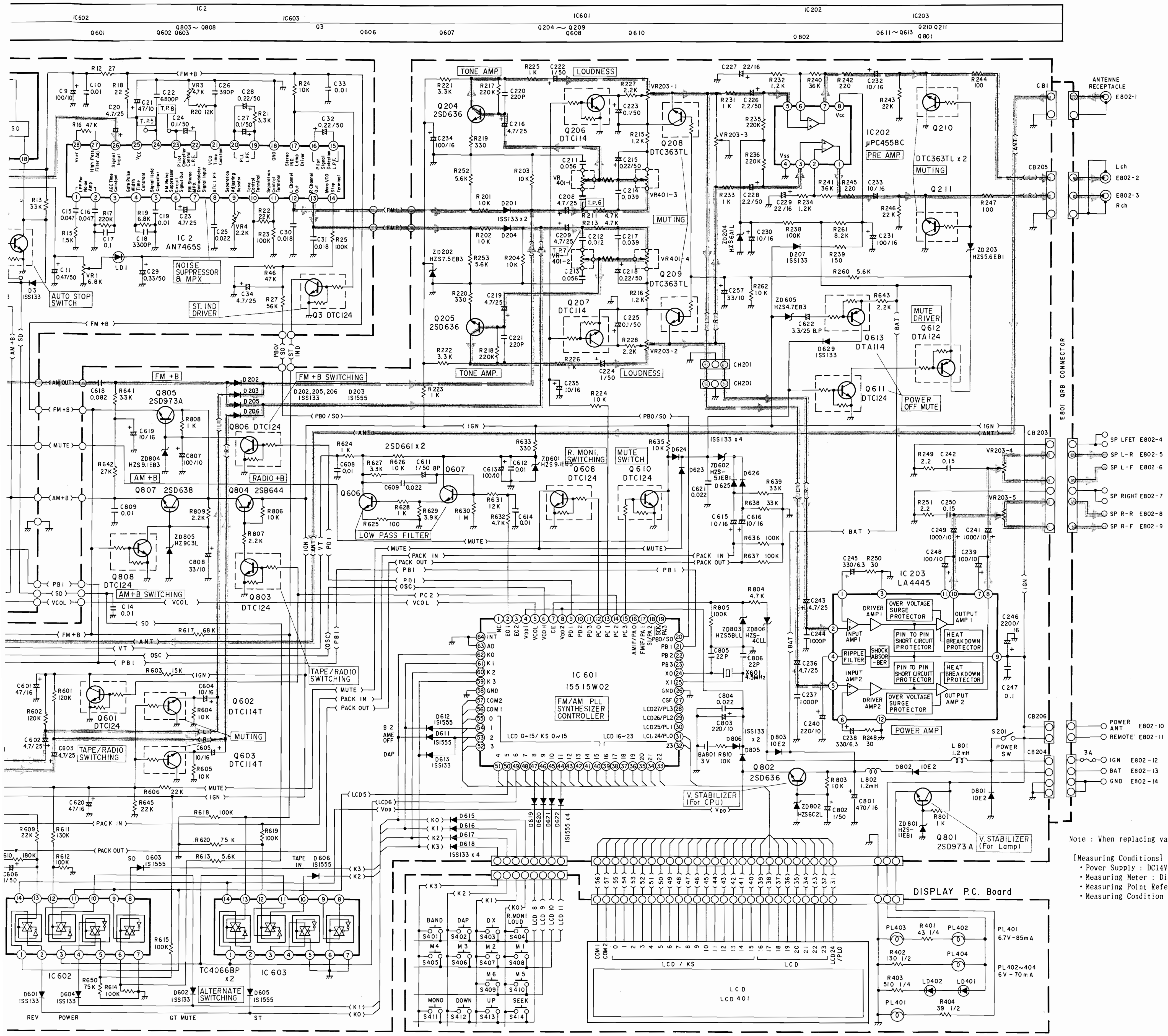
Note : When replacing varactor diode VD1 always use a diode with the same rank.

[Measuring Conditions]
- Power Supply : DC14V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : No Signal Input
  MW : 999kHz
  LW : 218kHz
  FM : 98.1MHz
  TAPE : BLANK TAPE

**NOTES:**
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

# Schematic Diagram ●For 7179ES Model Only


1
2
3
4
5
IC
Transistor (Q)
IC1501
IC1
IC3
IC2
IC602
IC603
IC601
IC202
IC203
Q1
Q6 Q5
Q1501
Q1502
Q2
Q601
Q602 Q603
Q803 ~ Q808
Q3
Q606
Q607
Q204 ~ Q209
Q608
Q610
Q802
Q611 ~ Q613
Q210 Q211
Q801
MAIN P.C. Board
TUNER P.C. Board
GT CONTROL P.C. Board
DISPLAY P.C. B
IC1 LA1145
FM IF AMP & DET
S. METER DETECTOR
QUADRATURE DETECTOR
IF COUNT
IF AMP
AF AMP / MUTE
AFC
VOLTAGE STABILIZER
HOLE DET MUTE DRIVE
SD
AM RADIO IC3 LA1137
IC2 AN7465S
NOISE SUPPRESSOR & MPX
AUTO STOP SWITCH
ST. IND DRIVER
LO/DX SWITCHING
FE1
ANT
GND
L/D
+B
VT
OSC
IF
DSP1 DSP201
Q1 DTC114T
Q2 DTC124
Q3 DTC124
Q6 2SK715
RF AMP
Q5 2SC1815
AGC
OSC BUFF
OSC
ALC
TWEET PRO.
SIGNAL METER
IF AGC
IF COUNT BUFFER
DET
IF AGC SW
RF AGC
ANT DUM
MIX
RF AGC SW
TONE AMP
LOUDNESS
Q204 2SD636
Q205 2SD636
Q206 DTC114
Q207 DTC114
Q208 DTC363TL
Q209 DTC363TL
MUTING
IC202 μPC4558C
PRE AMP
DTC363TL x 2
Q210
Q211
MUTE DRIVER
Q612 DTA124
Q613 DTA114
Q611 DTC124
POWER OFF MUTE
FM+B SWITCHING
Q805 2SD973A
Q806 DTC124
RADIO +B
Q804 2SB644
Q807 2SD638
AM+B
Q808 DTC124
AM+B SWITCHING
Q803 DTC124
2SD661 x 2
Q606
Q607
LOW PASS FILTER
R. MONI. SWITCHING
Q608 DTC124
MUTE SWITCH
Q610 DTC124
TAPE/RADIO SWITCHING
IC601 15515W02
FM/AM PLL SYNTHESIZER CONTROLLER
LCD 0~15/KS 0~15
LCD 16~23
Q802 2SD636
V. STABILIZER (For CPU)
Q801 2SD973A
IC203 LA4445
DRIVER AMP1
DRIVER AMP2
INPUT AMP1
INPUT AMP2
OVER VOLTAGE SURGE PROTECTOR
PIN TO PIN SHORT CIRCUIT PROTECTOR
HEAT BREAKDOWN PROTECTOR
RIPPLE FILTER
SHOCK ABSORBER
OUTPUT AMP1
OUTPUT AMP2
POWER AMP
IC1501 TA7705F
AMP
BIAS CIRCUIT
F/R SELECT SW.
EQ SELECT SW
EQ AMP
FOR/REV SWITCHING
Q1501 DTC124K
Q1502 DTC124K
HD1501 HEAD
Lch
Rch
CH1501
CH601
L OUT
R OUT
S GND
MUTE
IGN
FOR IND
REV IND
PACK IN
METAL IND
PAUSE
PACK OUT
P. GND
Q601 DTC124
Q602 DTC114T
Q603 DTC114T
MUTING
IC602
IC603
TC4066BP x2
ALTERNATE SWITCHING
REV
POWER
GT MUTE
ST
M1501 MOTOR
SD1501 PLAY SOLENOID
S1504 MUTE SWITCH
S1503 METAL SWITCH
S1502 F/R SWITCH
S1501 PACK IN SWITCH
BAND S401
DAP S402
DX S403
R.MONI LOUD S404
M4 S405
M3 S406
M2 S407
M1 S408
M6 S409
M5 S410
MONO S411
DOWN S412
UP S413
SEEK S414
LCD / KS
LCD
LCD 401
PL403
PL402
PL404
PL401
LD402
LD401
A
B
C
D
E
F
G
H


IC2
IC602
IC603
IC601
IC202
IC203
Q601
Q602 Q603
Q803~Q808
Q3
Q606
Q607
Q204 ~ Q209
Q608
Q610
Q802
Q611 ~ Q613
Q210 Q211
Q801
TONE AMP
LOUDNESS
IC 2
AN7465S
NOISE SUPPRESSOR & MPX
AUTO STOP SWITCH
ST. IND DRIVER
Q3 DTC124
Q204 2SD636
Q205 2SD636
Q206 DTC114
Q207 DTC114
Q208 DTC363TL
Q209 DTC363TL
MUTING
IC202 µPC4558C
PRE AMP
DTC363TL x 2
Q210
Q211
ANTENNA RECEPTACLE
E802-1
Lch
E802-2
E802-3
Rch
MUTE DRIVER
Q612 DTA124
Q613 DTA114
Q611 DTC124
POWER OFF MUTE
E801 Q88 CONNECTOR
FM+B SWITCHING
Q805 2SD973A
Q806 DTC124
RADIO +B
Q804 2SB644
Q807 2SD638
AM +B
Q808 DTC124
AM+B SWITCHING
Q803 DTC124
2SD661 x 2
LOW PASS FILTER
R. MONI. SWITCHING
Q608 DTC124
MUTE SWITCH
Q610 DTC124
SP LFET E802-4
SP L-R E802-5
SP L-F E802-6
SP RIGHT E802-7
SP R-R E802-8
SP R-F E802-9
IC 203 LA4445
DRIVER AMP1
OVER VOLTAGE SURGE PROTECTOR
OUTPUT AMP 1
INPUT AMP1
PIN TO PIN SHORT CIRCUIT PROTECTOR
HEAT BREAKDOWN PROTECTOR
RIPPLE FILTER
SHOCK ABSOR-BER
INPUT AMP2
DRIVER AMP2
OUTPUT AMP 2
POWER AMP
IC 601 1551SW02
FM/AM PLL SYNTHESIZER CONTROLLER
TAPE/RADIO SWITCHING
Q601 DTC124
Q602 DTC114T
Q603 DTC114T
MUTING
POWER ANT E802-10
REMOTE E802-11
IGN E802-12
BAT E802-13
GND E802-14
POWER SW
Q802 2SD636
V. STABILIZER (For CPU)
Q801 2SD973A
V. STABILIZER (For Lamp)
TC4066BP x2
IC602
IC603
ALTERNATE SWITCHING
REV
POWER
GT MUTE
ST
DISPLAY P.C. Board
BAND
DAP
DX
R.MONI LOUD
S401
S402
S403
S404
M4
M3
M2
M1
S405
S406
S407
S408
M6
M5
S409
S410
MONO
DOWN
UP
SEEK
S411
S412
S413
S414
LCD / KS
LCD
LCD 401
PL401 6.7V-85mA
PL402~404 6V-70mA
PL403
PL402
PL404
PL401
LD402
LD401

| | E | C | B | MODE |
|---|---|---|---|---|
| Q1 | 0V/0V | 0V/7.3V | 4.3V/0V | L/D |
| Q2 | 0V | 5.4V | 0V | S/D |
| Q3 | 0V | 0V/0.6V | 0V/4.2V | ST IND |
| Q5 | 1.8V | 8.7V | 2.4V | |
| Q204 | 0V | 0V | 3.3V | LOUD |
| Q205 | 0V | 0V | 0V/4.3V | MUTE |
| Q206 | 0V | 0V | 0V/4.3V | MUTE |
| Q207 | 0V | 0V | 0V/8V | MUTE |
| Q208 | 0V | 0V | 0V/8V | MUTE |
| Q209 | 0V | 0V | 0V/4.3V | |
| Q210 | 0V | 0V | 0V/8V | |
| Q211 | 0V | 0V | 0V/8V | |
| Q601 | 0V | 0V | 4.3V | T/R |
| Q602 | 0V | 0V | 12.7V/0V | MUTE |
| Q603 | 0V | 0V | 12.7V/0V | MUTE |
| Q606 | 0V | 3.7V | 0.6V | |
| Q607 | 0.6V | 9.2V | 1.1V | |
| Q608 | 0V | 0V | 4.4V/0V | R MONI |
| Q610 | 0V | 0V | 4.3V | MUTE |
| Q611 | 0V | 13.3V | 0V | |
| Q612 | 13.3V | 0V | 13.3V | |
| Q613 | 13.3V | 0V | 13.3V | |
| Q801 | 9.8V | 13.8V | 10.4V | |
| Q802 | 5.1V | 13.3V | 5.8V | |
| Q803 | 0V | 0V | 4.3V | T/R |
| Q804 | 13.8V | 13.5V | 12.9V | |
| Q805 | 8.5V | 13.5V | 9.1V | FM |
| Q806 | 0V | 9.1V | 0V | FM |
| Q807 | 0V | 13.5V | 9.7V | AM |
| Q808 | 0V | | 0V | AM |
| Q1501 | 0V | 0V/2.5V | 4.46V/0V | FOR/REV |
| Q1502 | 0V | 0V/4.36V | 13.9V/0V | FOR/REV |

I C 1

| | |
|---|---|
| 1 | 2.8V |
| 2 | 2.8V |
| 3 | 0V |
| 4 | 4V |
| 5 | 4V |
| 6 | 1.9V |
| 7 | 5V |
| 8 | 5V |
| 9 | 5V |
| 10 | 4.9V |
| 11 | 4.9V |
| 12 | 7.8V |
| 13 | 0V |
| 14 | 0V |
| 15 | 0V |
| 16 | 4.1V |
| 17 | 3.9V |
| 18 | 0V |

I C 2

| | | | |
|---|---|---|---|
| 1 | 2.4V | 15 | 2.4V |
| 2 | 1.8V | 16 | 2.4V |
| 3 | 1.2V | 17 | 6.1V |
| 4 | 0V | 18 | 0V |
| 5 | 2.5V | 19 | 2.4V |
| 6 | 1.3V | 20 | 2.4V |
| 7 | 1.2V | 21 | 1.3V |
| 8 | 1.8V | 22 | 2.4V |
| 9 | 0V | 23 | 2.4V |
| 10 | 2.2V | 24 | 2.4V |
| 11 | 1.8V | 25 | 8.2V |
| 12 | 3V | 26 | 2.4V |
| 13 | 3V | 27 | 2.4V |
| 14 | 2.5V/0V | 28 | 2.4V |

I C 3

| | | | |
|---|---|---|---|
| 1 | 1V | 11 | 0V |
| 2 | 1.5V | 12 | 5.1V |
| 3 | 3.5V | 13 | 0V |
| 4 | 0V | 14 | 5.2V |
| 5 | 2V | 15 | 8.9V |
| 6 | 8.9V | 16 | 3.3V |
| 7 | 6.2V | 17 | 4.4V |
| 8 | 1.5V | 18 | 5.7V |
| 9 | 1V | 19 | 8.9V |
| 10 | 8.9V | 20 | 5.6V |

I C 2 0 2

| | |
|---|---|
| 1 | 6.7V |
| 2 | 6.7V |
| 3 | 6.7V |
| 4 | 0V |
| 5 | 6.7V |
| 6 | 6.7V |
| 7 | 6.7V |
| 8 | 12.7V |

I C 2 0 3

| | |
|---|---|
| 1 | 12.9V |
| 2 | 0V |
| 3 | 0V |
| 4 | 14V |
| 5 | 0V |
| 6 | 12.9V |
| 7 | 13V |
| 8 | 7.1V |
| 9 | 14V |
| 10 | 7.2V |
| 11 | 13V |
| 12 | 0V |

I C 6 0 1

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.7V | | 17 | 0V | | 33 | PS | | 49 | PS | |
| 2 | 1.1V | | 18 | 4.3V | | 34 | PS | | 50 | PS | |
| 3 | 4.4V | AM OSC | 19 | 4.4V | | 35 | PS | | 51 | PS | |
| 4 | 0V | FM OSC | 20 | 4.4V | ST/MONO | 36 | PS | | 52 | PS | |
| 5 | 1.7V | | 21 | 4.3V/0V | L/D | 37 | PS | | 53 | PS | |
| 6 | 1.8V | FM/AM | 22 | 4.5V | | 38 | PS | | 54 | PS | |
| 7 | 4.4V | | 23 | 4.5V | | 39 | PS | | 55 | PS | |
| 8 | 0V | R MONI | 24 | 1.9V | | 40 | PS | | 56 | PS | |
| 9 | 0V/4.5V | | 25 | 1.9V | | 41 | PS | | 57 | PS | |
| 10 | 0V | LOUD | 26 | 5V/4.8V | TA/RA | 42 | PS | | 58 | 4.6V | |
| 11 | 4.4V | T/R | 27 | PS | | 43 | PS | | 59 | PS | |
| 12 | 4.4V | MUTE | 28 | PS | | 44 | PS | | 60 | PS | |
| 13 | 0V | | 29 | PS | | 45 | PS | | 61 | PS | |
| 14 | 4.4V | | 30 | PS | | 46 | PS | | 62 | PS | |
| 15 | 4.4V/0V | | 31 | PS | | 47 | PS | | 63 | 4.9V/0V | ON/OFF |
| 16 | 4.4V | | 32 | PS | | 48 | PS | | 64 | 0V | |

I C 6 0 2

| | ON | OFF |
|---|---|---|
| 1 | PS | |
| 2 | PS | 0V |
| 3 | PS | |
| 4 | PS | 0V |
| 5 | 5V | |
| 6 | 0V | |
| 7 | 0V | |
| 8 | 0V | |
| 9 | 0V | |
| 10 | PS | 0V |
| 11 | PS | |
| 12 | 5.9V | |
| 13 | 5V | |
| 14 | 5.2V | |

I C 6 0 3

| | ON | OFF |
|---|---|---|
| 1 | PS | |
| 2 | PS | 0V |
| 3 | 0V | |
| 4 | 0V | |
| 5 | 0V | |
| 6 | 0V | |
| 7 | 0V | |
| 8 | 0V | |
| 9 | 0V | |
| 10 | PS | 0V |
| 11 | PS | |
| 12 | 4.5V | |
| 13 | 4.9V | |
| 14 | 5.2V | |

I C 1 5 0 1

| | |
|---|---|
| 1 | 12.9V |
| 2 | 2.97V |
| 3 | FOR:0V REV:2.48V |
| 4 | 2.88V |
| 5 | 2.85V |
| 6 | 2.85V |
| 7 | 2.85V |
| 8 | 0V |
| 9 | 2.84V |
| 10 | |
| 11 | 2.85V |
| 12 | 2.85V |
| 13 | 2.85V |
| 14 | 2.88V |
| 15 | MET:9.3V NOR:0V |
| 16 | 2.96V |

Q 6

| | |
|---|---|
| G | 0V |
| D | 1.8V |
| S | 0V |

Note : When replacing varactor diodes VD1 ~VD3 always use a diode with the same rank.

[Measuring Conditions]
- Power Supply : DC14V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : No Signal Input
  AM : 1000kHz
  FM : 98.1MHz
  TAPE : BLANK TAPE

**NOTES:**
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

# Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.
uF=microfarads, pF=picofarads

## Abbreviations

RES.=Resistor
C.F.=Carbon Film
M.F.=Metal Film
M.O.=Metal Oxide Film
M.P.=Metal Plate
TR.=Transistor
TRANS.=Transformer
CP.=Chip

CAP.=Capacitor
ELY.=Electrolytic
CER.=Ceramic
MYL.=Mylar
TAN.=Tantalum
POLY.=Polystyrol
PP.=Polypropylene
PLT.=Polyethylene

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| ● ▲ | Radio P. C. Board (For 7179MS and 7179LS models only.) | | | |
| IC's/Transistors | | | | |
| IC1 | 51T94315F01 | μ PC1322CA | | |
| IC2 | 51T94495F01 | LA1145 | | |
| IC3 | 51T94316F01 | AN7465S | | |
| Q1 | 48T95129F03 | FET, 2SK715V | | |
| Q2 | 48S43525F03 | 2SC1815 | | |
| Q3 | 48T62963F03 | DTC124 | | |
| Q4 | 48S40627U04 | 2SD636 | | |
| Diodes | | | | |
| D1 | 48T44813F01 | MA165TA | | |
| D2 | 48T44813F01 | MA165TA | | |
| D4 | 48T44813F01 | MA165TA | | |
| D5 | 48T44813F02 | MA165TA | | |
| LD1 | 48T51833F03 | LED, BG4524K (GRN) | | |
| VD1 | 48T96538F01 | Varactor, SVC203-SPA | | |
| Coils | | | | |
| L2 | 24T51656F24 | Inductor 15 μ H | | |
| L3 | 24T51656F18 | Inductor 4.7 μ H | | |
| L4 | 24T94308F01 | Inductor 100mH | | |
| L5 | 24T94309F01 | Inductor 2mH | | |
| L6 | 24T51656F34 | Inductor 100 μ H | | |
| L8 | 24T94496F01 | OSC (RED) | | |
| Transistors/Crystal/Filter/Thermistor | | | | |
| T1 | 24T94496F02 | Coil, IFT-1 (BRN) | | |
| T2 | 24T94496F03 | Coil, IFT-2 (YEL) | | |
| T3 | 24T94496F04 | Coil, IFT-3 (BLK) | | |
| T4 | 24T10069W01 | Coil, FM 1F | | |
| T5 | 24T10069W02 | Coil, FM | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| X1 | 48T94314F02 | Crystal, 10.26MHz | | |
| CF3 | 91T94396F01 | CER., Filter, 10.71MJ | | |
| CF5 | 91T73118F02 | CER., Filter, SFP 450H12 | | |
| TH1 | 48T82780F02 | Thermistor-100k ohm | | |
| Capacitors | | | | |
| C4 | 08S65480F61 | CER., 0.01 μ F | | |
| C5 | 08S65480F43 | CER., 330pF | | |
| C6 | 08T44979P12 | CER., 0.047 μ F | | |
| C7 | 08T44979P12 | CER., 0.047 μ F | | |
| C8 | 23T43247F06 | ELY., 2.2 μ F/50V | | |
| C9 | 08T44979P12 | CER., 0.047 μ F | | |
| C10 | 08S65480F31 | CER., 56pF | | |
| C11 | 08S65480F13 | CER., 10pF | | |
| C12 | 08T44979P12 | CER., 0.047 μ F | | |
| C13 | 08S65480F29 | CER., 47pF | | |
| C15 | 08S65480F37 | CER., 100pF | | |
| C16 | 08S65480F62 | CER., 0.022 μ F | | |
| C17 | 08S65480F62 | CER., 0.022 μ F | | |
| C18 | 08S65480F58 | CER., 5600pF | | |
| C19 | 23T43247F13 | ELY., 47 μ F/10V | | |
| C20 | 08T44979P10 | CER., 0.022 μ F | | |
| C21 | 23T43247F06 | ELY., 2.2 μ F/50V | | |
| C22 | 08S65480F61 | CER., 0.01 μ F | | |
| C23 | 08S44505P61 | CER., 0.01 μ F | | |
| C24 | 23T43247F10 | ELY., 22 μ F/16V | | |
| C25 | 08S65480F31 | CER., 56pF | | |
| C26 | 08S65480F61 | CER., 0.01 μ F | | |
| C27 | 23T43247F21 | ELY., 100 μ F/10V | | |
| C28 | 23T43247F06 | ELY., 2.2 μ F/50V | | |
| C29 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C30 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C31 | 08T44979P12 | CER., 0.047 μ F | | |
| C32 | 23T43247F21 | ELY., 100 μ F/10V | | |
| C33 | 08S65480F61 | CER., 0.01 μ F | | |
| C34 | 23T43247F04 | ELY., 0.47 μ F/50V | | |
| C35 | 08S65480F49 | CER., 1000pF | | |
| C36 | 08S65480F62 | CER., 0.022 μ F | | |
| C37 | 08S65480F38 | CER., 120pF | | |
| C39 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C40 | 08S65480F62 | CER., 0.022 μ F | | |
| C41 | 08S65480F61 | CER., 0.01 μ F | | |
| C42 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C43 | 23T43247F13 | ELY., 47 μ F/10V | | |
| C44 | 08S65480F58 | CER., 5600pF | | |
| C45 | 23T43247F01 | ELY., 0.1 μ F/50V | | |

Notes : ● : For 7179MS model only, ▲ : For 7179LS model only, Others : Both models common.
When replacing varactor diode VD1 always use a diode with the same rank.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| C46 | 08T44481F03 | PP., 390pF | | |
| C47 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C48 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C49 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C50 | 08S65480F62 | CER., 0.022 μ F | | |
| C51 | 08S65480F62 | CER., 0.022 μ F | | |
| C52 | 08S65480F62 | CER., 0.022 μ F | | |
| C53 | 08S65480F62 | CER., 0.022 μ F | | |
| C54 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C55 | 08S65480F55 | CER., 3300pF | | |
| C56 | 08S65480F61 | CER., 0.01 μ F | | |
| C57 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C58 | 08T42629F68 | MYL., 0.012 μ F | | |
| C59 | 23T43247F03 | ELY., 0.33 μ F/50V | | |
| C60 | 08T44979P08 | CER., 0.01 μ F | | |
| C61 | 08T44979P08 | CER., 0.01 μ F | | |
| C63 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C65 | 08T44979P11 | CER., 0.033 μ F | | |

Resistors

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| VR1 | 18T74439F22 | Variable 330k ohm | | |
| VR2 | 18T74439F16 | Variable 33k ohm | | |
| VR3 | 18T74439F13 | Variable 10k ohm | | |
| VR4 | 18T74439F19 | Variable 100k ohm | | |
| VR5 | 18T74439F09 | Variable 2.2k ohm | | |

● Main P. C. Board
▲ (For 7179MS and 7179LS models only.)

IC's

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| IC303 | 51T62339F01 | LA4445 | | |
| IC601 | 51T15947W01 | 15947W01 | | |
| IC602 | 51T47739F01 | TC4066BP | | |
| IC603 | 51T47739F01 | TC4066BP | | |

Transistors

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | Q5 | 48T62540F05 | UN1215 | | |
| | Q103 | 48T62963F10 | DTC114T | | |
| | Q104 | 48T62963F10 | DTC114T | | |
| | Q106 | 48T62963F03 | DTC124 | | |
| | Q303 | 48T62963F02 | DTC114 | | |
| | Q304 | 48T57337F01 | 2SD1330 | | |
| | Q305 | 48T62963F02 | DTC114 | | |
| | Q306 | 48T57337F01 | 2SD1330 | | |
| ● | Q307 | 48T57337F01 | 2SD1330 | | |
| ● | Q308 | 48T57337F01 | 2SD1330 | | |
| | Q601 | 48T42182U01 | 2SD661 | | |
| | Q602 | 48T42182U01 | 2SD661 | | |
| | Q603 | 48T62963F03 | DTC124 | | |
| ● | Q604 | 48T62540F05 | UN1215 | | |
| ▲ | Q605 | 48T62540F05 | UN1215 | | |
| | Q631 | 48T62962F02 | DTA114 | | |
| | Q632 | 48T62962F03 | DTA124 | | |
| | Q633 | 48T62963F03 | DTC124 | | |
| | Q660 | 48T62540F05 | UN1215 | | |
| ● | Q662 | 48T62963F03 | DTC124 | | |
| ● | Q663 | 48S40627U04 | 2SD636 | | |
| | Q801 | 48S40627U04 | 2SD636 | | |
| | Q802 | 48T52549F02 | 2SD973A | | |
| | Q803 | 48T52549F02 | 2SD973A | | |
| | Q804 | 48S42455F03 | 2SD638 | | |
| | Q805 | 48T62540F05 | UN1215 | | |
| | Q806 | 48T62540F05 | UN1215 | | |
| ● | Q807 | 48S42455F03 | 2SD638 | | |

Diodes/Surge Protector

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | D8 | 48T68828F01 | 1SS133 | | |
| | D9 | 48T68828F01 | 1SS133 | | |
| | D80 | 48T68828F01 | 1SS133 | | |
| | D81 | 48T68828F01 | 1SS133 | | |
| | D82 | 48T68828F01 | 1SS133 | | |
| | D83 | 48T68828F01 | 1SS133 | | |
| ● | D602 | 48T43189F01 | 1S1555 | | |
| | D603 | 48T68828F01 | 1SS133 | | |
| | D604 | 48T68828F01 | 1SS133 | | |
| | D605 | 48T68828F01 | 1SS133 | | |
| | D606 | 48T68828F01 | 1SS133 | | |
| | D607 | 48T68828F01 | 1SS133 | | |
| | D608 | 48T68828F01 | 1SS133 | | |
| | D609 | 48T68828F01 | 1SS133 | | |
| | D610 | 48T68828F01 | 1SS133 | | |
| | D611 | 48T68828F01 | 1SS133 | | |
| | D612 | 48T68828F01 | 1SS133 | | |
| ● | D613 | 48T43189F01 | 1S1555 | | |
| ▲ | D613 | 48T68828F01 | 1SS133 | | |
| | D614 | 48T68828F01 | 1SS133 | | |
| ▲ | D615 | 48T43189F01 | 1S1555 | | |
| ● | D616 | 48T43189F01 | 1S1555 | | |
| | D618 | 48T68828F01 | 1SS133 | | |
| | D623 | 48T68828F01 | 1SS133 | | |
| | D625 | 48T68828F01 | 1SS133 | | |
| | D631 | 48T68828F01 | 1SS133 | | |
| | D632 | 48T68828F01 | 1SS133 | | |
| | D633 | 48T68828F01 | 1SS133 | | |
| | D638 | 48T68828F01 | 1SS133 | | |
| | D659 | 48T68828F01 | 1SS133 | | |

Notes : ● : For 7179MS model only, ▲ : For 7179LS model only, Others : Both models common.

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | D660 | 48T43189F01 | 1S1555 | | |
| ● | D665 | 48T68828F01 | 1SS133 | | |
| | D801 | 48C40235G02 | 10E2 | | |
| | D803 | 48C40235G02 | 10E2 | | |
| | D804 | 48C40235G02 | 10E2 | | |
| | D806 | 48T68828F01 | 1SS133 | | |
| | ZD302 | 48T68697F26 | Zener, HZS6.8EB1 | | |
| | ZD601 | 48T68697F35 | Zener, HZS9.1EB1 | | |
| ● | ZD605 | 48T68697F35 | Zener, HZS9.1EB1 | | |
| | ZD631 | 48T68697F16 | Zener, HZS4.7EB3 | | |
| | ZD632 | 48T68697F17 | Zener, HZS5.1EB1 | | |
| | ZD801 | 48T83128F08 | Zener, HZS6C2L | | |
| | ZD802 | 48T91071F11 | Zener, HZS5BLL | | |
| | ZD803 | 48T68697F42 | Zener, HZS11EB1 | | |
| | ZD804 | 48T68697F37 | Zener, HZS9.1EB3 | | |
| | ZD805 | 48T52741F25 | Zener, HZ9C−1L | | |
| ● | ZD806 | 48T68697F35 | Zener, HZS9.1EB1 | | |
| | ZD807 | 48T91071F09 | Zener, HZS4CLL | | |
| | DSP1 | 48T81909F01 | Surge Protector, DSP−201M | | |
| | Coils | | | | |
| | L1 | 24T50508F02 | Inductor 0.22 μ H | | |
| | L10 | 24T50508F06 | Inductor 0.47 μ H | | |
| | L801 | 24T58149F02 | Inductor 1.2mH | | |
| | L802 | 25C40894G11 | Choke, Trans. 1.2mH | | |
| | Crystal/Filters | | | | |
| | X601 | 48T55073F01 | 4.5MHz | | |
| | CF1 | 91T80084F01 | CER., Filter 1070MS10FAL | | |
| | CF2 | 91T80084F01 | CER., Filter 1070MS10FAL | | |
| | Capacitors | | | | |
| | C1 | 08S65480F25 | CER., 33pF | | |
| | C2 | 08S65480F62 | CER., 0.022 μ F | | |
| | C3 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C64 | 23S57422F08 | ELY., 4.7 μ F/25V | | |
| | C80 | 08S65480F61 | CER., 0.01 μ F | | |
| | C81 | 08T44979P12 | CER., 0.047 μ F | | |
| | C82 | 23S43247F02 | ELY., 0.22 μ F/50V | | |
| | C83 | 23S57422F08 | ELY., 4.7 μ F/25V | | |
| | C84 | 23S57422F08 | ELY., 4.7 μ F/25V | | |
| | C85 | 23S43247F09 | ELY., 10 μ F/16V | | |
| | C87 | 08S65480F37 | CER., 100pF | | |
| | C102 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| | C103 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| | C104 | 23S43247F09 | ELY., 10 μ F/16V | | |
| | C105 | 23S43247F09 | ELY., 10 μ F/16V | | |

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | C107 | 23S43247F05 | ELY., 1 μ F/50V | | |
| ● | C108 | 23T73861F06 | ELY., 100 μ F/16V | | |
| ▲ | C108 | 23T73861F05 | ELY., 47 μ F/16V | | |
| | C320 | 23T68328F03 | ELY., 100 μ F/10V | | |
| ▲ | C321 | 23S41059P01 | ELY., 0.1 μ F/50V | | |
| ● | C321 | 08T42629F73 | MYL., 0.033 μ F | | |
| ● | C322 | 08T42629F73 | MYL., 0.033 μ F | | |
| ▲ | C322 | 23S41059P01 | ELY., 0.1 μ F/50V | | |
| ● | C323 | 23T43247F10 | ELY., 22 μ F/16V | | |
| ▲ | C323 | 23T43247F11 | ELY., 33 μ F/10V | | |
| | C351 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| | C352 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| | C353 | 08S65480F49 | CER., 1000pF | | |
| | C354 | 08S65480F49 | CER., 1000pF | | |
| | C355 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C356 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C357 | 08T42629F31 | MYL., 0.15 μ F | | |
| | C358 | 08T42629F31 | MYL., 0.15 μ F | | |
| | C359 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C360 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C361 | 23C42170G29 | ELY., 1000 μ F/10V | | |
| | C362 | 23C42170G29 | ELY., 1000 μ F/10V | | |
| | C363 | 23T68328F17 | ELY., 220 μ F/16V | | |
| | C364 | 23T51232F01 | ELY., 2200 μ F/16V | | |
| | C365 | 08S65480F63 | CER., 0.1 μ F | | |
| | C601 | 08S65480F61 | CER., 0.01 μ F | | |
| | C602 | 23T41366F41 | ELY., (B.P.) 2.2 μ F/50V | | |
| | C603 | 23S43247F03 | ELY., 0.33 μ F/50V | | |
| | C604 | 08S65480F61 | CER., 0.01 μ F | | |
| | C605 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C606 | 08S65480F61 | CER., 0.01 μ F | | |
| | C607 | 23S43247F09 | ELY., 10 μ F/16V | | |
| | C608 | 08S65480F21 | CER., 22pF | | |
| | C609 | 08S65480F21 | CER., 22pF | | |
| ● | C617 | 23S43247F16 | ELY., 22 μ F/6.3V | | |
| ● | C618 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C631 | 23T41366F42 | ELY., (B.P.) 3.3 μ F/50V | | |
| | C632 | 23S43247F09 | ELY., 10 μ F/16V | | |
| | C633 | 23S43247F09 | ELY., 10 μ F/16V | | |
| | C635 | 23S43247F09 | ELY., 10 μ F/16V | | |
| ● | C665 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| | C801 | 23C42170G30 | ELY., 470 μ F/16V | | |
| | C802 | 23S43247F05 | ELY., 1 μ F/50V | | |
| | C803 | 23T43247F19 | ELY., 220 μ F/6.3V | | |
| | C805 | 23T68328F03 | ELY., 100 μ F/10V | | |
| | C806 | 23T68328F03 | ELY., 100 μ F/10V | | |
| ● | C807 | 23T68328F02 | ELY., 47 μ F/10V | | |
| | C808 | 08S65480F62 | CER., 0.022 μ F | | |

Notes : ● : For 7179MS model only, ▲ : For 7179LS model only, Others : Both models common.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| **Resistors** | | | | |
| ● VR302<br>S301 | 18T16194W01 | Volume, Control 100k ohm (FADER/BALANCE, POWER) | | |
| ▲ VR302<br>S301 | 18T16194W02 | Volume, Control 20k ohm (FADER/BALANCE, POWER) | | |
| ● VR303 | 18T42748F09 | Variable, 2.2k ohm | | |
| ● ▲ **Tone P. C. Board** (For 7179MS and 7179LS models only.) | | | | |
| **IC/Transistors/Diodes** | | | | |
| IC301 | 51S43471U02 | μ PC4558C | | |
| Q301 | 48S40627U04 | TR., 2SD636 | | |
| Q302 | 48S40627U04 | TR., 2SD636 | | |
| Q311 | 48T57337F03 | TR., 2SD1330 | | |
| Q312 | 48T57337F03 | TR., 2SD1330 | | |
| D301 | 48T44813F01 | Diode, MA165TA | | |
| D302 | 48T44813F01 | Diode, MA165TA | | |
| ZD301 | 48T68697F11 | Diode, Zener, HZS4.3EB1 | | |
| **Capacitors** | | | | |
| C301 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C302 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C303 | 08T42629F68 | MYL., 0.012 μ F | | |
| C304 | 08T42629F68 | MYL., 0.012 μ F | | |
| C305 | 08T42629F74 | MYL., 0.039 μ F | | |
| C306 | 08T42629F74 | MYL., 0.039 μ F | | |
| C307 | 08T42629F74 | MYL., 0.039 μ F | | |
| C308 | 08T42629F74 | MYL., 0.039 μ F | | |
| C309 | 23S43247F02 | ELY., 0.22 μ F/50V | | |
| C310 | 23S43247F02 | ELY., 0.22 μ F/50V | | |
| C311 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C312 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C313 | 08S65480F41 | CER., 220pF | | |
| C314 | 08S65480F41 | CER., 220pF | | |
| C315 | 23C44780P23 | ELY., 220 μ F/16V | | |
| C316 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C317 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C318 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C319 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C324 | 23S43247F22 | ELY., 100 μ F/16V | | |
| C326 | 23S43247F05 | ELY., 1 μ F/50V | | |
| C327 | 23S43247F05 | ELY., 1 μ F/50V | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| ● **SDK P. C. Board** (For 7179MS model only.) | | | | |
| **IC's/Transistors** | | | | |
| IC604 | 51T82523F01 | TDA1579 | | |
| IC605 | 51T83062F01 | NJM2902N | | |
| IC606 | 51T47739F01 | TC4066BP | | |
| Q651 | 48S43525F03 | TR., 2SC1815 | | |
| Q652 | 48T51118F02 | TR., 2SA1015 | | |
| Q653 | 48S43525F03 | TR., 2SC1815 | | |
| Q654 | 48S43525F03 | TR., 2SC1815 | | |
| Q655 | 48S43525F03 | TR., 2SC1815 | | |
| Q656 | 48S40591U01 | TR., 2SB641 | | |
| Q657 | 48S43525F03 | TR., 2SC1815 | | |
| Q658 | 48S40627U04 | TR., 2SD636 | | |
| Q659 | 48S43525F03 | TR., 2SC1815 | | |
| **Diodes/Coil** | | | | |
| D651 | 48T44813F01 | MA165TA | | |
| D652 | 48T44813F01 | MA165TA | | |
| D653 | 48T44813F01 | MA165TA | | |
| D654 | 48T44813F01 | MA165TA | | |
| D655 | 48T44813F01 | MA165TA | | |
| D656 | 48T44813F01 | MA165TA | | |
| D657 | 48T44813F01 | MA165TA | | |
| D658 | 48T44813F01 | MA165TA | | |
| L601 | 24T84175F02 | Coil, SK (57kHz) | | |
| **Capacitors/Resistor** | | | | |
| C610 | 08T50579F13 | TF., 0.1 μ F | | |
| C611 | 08T50579F09 | MYL., 0.047 μ F | | |
| C612 | 23S41198U26 | ELY., 47 μ F/10V | | |
| C613 | 08S65480F61 | CER., 0.01 μ F | | |
| C614 | 08S65480F61 | CER., 0.01 μ F | | |
| C615 | 08S65480F31 | CER., 56pF | | |
| C616 | 23S43247F11 | ELY., 33 μ F/10V | | |
| C651 | 08T50579F13 | TF., 0.1 μ F | | |
| C652 | 08T50579F13 | TF., 0.1 μ F | | |
| C653 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C654 | 08T50579F09 | TF., 0.047 μ F | | |
| C655 | 08T50579F09 | TF., 0.047 μ F | | |
| C656 | 08T50579F09 | TF., 0.047 μ F | | |
| C657 | 08T50579F09 | MYL., 0.047 μ F | | |
| C658 | 08T42629F73 | MYL., 0.033 μ F | | |
| C659 | 23S43247F01 | ELY., 0.1 μ F/50V | | |
| C660 | 08T44979P11 | CER., 0.033 μ F | | |
| C661 | 23S43247F09 | ELY., 10 μ F/16V | | |
| VR601 | 18T42748F02 | RES., Variable, 150 ohm | | |

Notes : ● : For 7179MS model only, ▲ : For 7179LS model only,
Main P. C. Board and Tone P. C. Board for 7179MS and 7179LS models only,
SDK P. C. Board for 7179MS model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| ▲ | **Switch P. C. Board**<br>(For 7179LS model only.) | | | |
| IC/Transistors/Diode | | | | |
| IC606 | 51T47739F01 | TC4066BP | | |
| Q657 | 48S43525F03 | TR., 2SC1815 | | |
| Q658 | 48T62963F03 | TR., DTC124 | | |
| ZD602 | 48T68697F23 | Diode, Zener, HZS6.2EB1 | | |
| ■ | **Tuner P. C. Board**<br>(For 7179ES model only.) | | | |
| IC's | | | | |
| IC1 | 51T94495F01 | LA1145 | | |
| IC2 | 51T94316F01 | AN7465S | | |
| IC3 | 51T94547F01 | LA1137 | | |
| Transistors | | | | |
| Q2 | 48T62963F03 | DTC124 | | |
| Q3 | 48T62963F03 | DTC124 | | |
| Q5 | 48S43525F02 | 2SC1815 | | |
| Q6 | 48T95129F01 | FET, 2SK715 | | |
| Diodes/LED | | | | |
| LD1 | 48T50930F02 | LED, PB2222S (RED) | | |
| D3 | 48T68828F01 | 1SS133 | | |
| D5 | 48T68828F01 | 1SS133 | | |
| D8 | 48T68829F01 | 1SS133 | | |
| D9 | 48T68829F01 | 1SS133 | | |
| D12 | 48T68828F01 | 1SS133 | | |
| VD1 | 48T80759F02 | Varactor, KV1235Z | | |
| VD2 | 48T80759F02 | Varactor, KV1235Z | | |
| VD3 | 48T80759F02 | Varactor, KV1235Z | | |
| Transistors | | | | |
| T1 | 24T58377F01 | Inductor FM (WHT) | | |
| T2 | 24T58377F02 | FM 7KL (BLU) | | |
| T3 | 24T95072F05 | AM OSC (RED) | | |
| T4 | 24T95072F04 | IFT−2 (BLK) | | |
| T5 | 24T95072F03 | IFT−1 (YEL) | | |
| T6 | 24T95072F02 | AM RF (GRN) | | |
| T7 | 24T95072F01 | AM ANT (WHT) | | |
| T8 | 24T95232F01 | Inductor (BLK) | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Filters | | | | |
| CF1 | 91T83724F01 | CER., 10.7MS2LK2−A | | |
| CF2 | 91T83724F01 | CER., 10.7MS2LK2−A | | |
| CF3 | 91T60378F01 | CER., BFU450C4N | | |
| CF4 | 91T56243F01 | CER., 450H | | |
| Capacitors | | | | |
| C4 | 08S65480F62 | CER., 0.022 μ F | | |
| C5 | 08S65480F38 | CER., 120pF | | |
| C6 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C7 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C8 | 08T44979P12 | CER., 0.047 μ F | | |
| C9 | 23S43247F21 | ELY., 100 μ F/10V | | |
| C10 | 08S65480F61 | CER., 0.01 μ F | | |
| C11 | 23S43247F04 | ELY., 0.47 μ F/50V | | |
| C12 | 23S43247F04 | ELY., 1 μ F/50V | | |
| C13 | 08S65480F55 | CER., 3300pF | | |
| C15 | 08T44979P12 | CER., 0.047 μ F | | |
| C16 | 08T44979P12 | CER., 0.047 μ F | | |
| C17 | 08S65480F63 | CER., 0.1 μ F | | |
| C18 | 08S65480F55 | CER., 3300pF | | |
| C19 | 08S65480F61 | CER., 0.01 μ F | | |
| C20 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C21 | 23S43247F13 | ELY., 47 μ F/10V | | |
| C22 | 08S65480F59 | CER., 6800pF | | |
| C23 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C24 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C25 | 08S65480F62 | CER., 0.022 μ F | | |
| C26 | 08T44481F03 | PP., 390pF | | |
| C27 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C28 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C29 | 23T43247F03 | ELY., 0.33 μ F/50V | | |
| C30 | 08T42629F70 | MYL., 0.033 μ F | | |
| C31 | 08T42629F70 | MYL., 0.033 μ F | | |
| C32 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C33 | 08S65480F61 | CER., 0.01 μ F | | |
| C34 | 23S43247F08 | ELY., 10 μ F/16V | | |
| C36 | 08T44481F04 | PP., 430pF | | |
| C37 | 08S65480F62 | CER., 0.022 μ F | | |
| C38 | 23S43247F21 | ELY., 100 μ F/10V | | |
| C39 | 08T44979P12 | CER., 0.047 μ F | | |
| C40 | 23S43247F04 | ELY., 0.47 μ F/50V | | |
| C41 | 23S43247F07 | ELY., 3.3 μ F/25V | | |
| C42 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C43 | 08T50579F09 | T.F., 0.047 μ F | | |
| C44 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C45 | 08S65480F62 | CER., 0.022 μ F | | |
| C46 | 23S43247F04 | ELY., 0.47 μ F/50V | | |
| C47 | 08S65480F62 | CER., 0.022 μ F | | |
| C48 | 08S65480F63 | CER., 0.1 μ F | | |
| C49 | 21C45322G32 | CER., 0.022 μ F | | |

Notes : ■ : For 7179ES model only, ▲ : For 7179LS model only, Switch P. C. Board for 7179LS model only, Tuner P. C. Board for 7179ES model only.
When replacing varactor diodes VD1～VD3 always use a diode with the same rank.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| C50 | 08S65480F62 | CER., 0.022 μ F | | |
| C51 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C52 | 23S43247F17 | ELY., 47 μ F/6.3V | | |
| C53 | 21C45322G32 | CER., 0.022 μ F | | |
| C55 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| VC1 | 20T47503F02 | Trimmer, TZ03 (RED) | | |
| VC2 | 20T47503F02 | Trimmer, TZ03 (RED) | | |
| VC3 | 20T47503F02 | Trimmer, TZ03 (RED) | | |
| Resistors | | | | |
| VR1 | 18T42748F12 | Variable, Solid, 6.8k ohm | | |
| VR2 | 18T42748F16 | Variable, 33k ohmB | | |
| VR3 | 18T42748F11 | Variable, 4.7k ohmB | | |
| VR4 | 18T42748F09 | Variable, 2.2k ohm | | |
| ■ Main P. C. Board | | | | |
| IC's | | | | |
| IC202 | 51S43471U02 | μ PC4558C | | |
| IC203 | 51T62339F01 | LA4445 | | |
| IC601 | 51T15515W02 | 15515W02 | | |
| IC602 | 51T47739F01 | TC4066BP | | |
| IC603 | 51T47739F01 | TC4066BP | | |
| Transistors | | | | |
| Q1 | 48T62963F10 | DTC114T | | |
| Q204 | 48S40627U01 | 2SD636 | | |
| Q205 | 48S40627U01 | 2SD636 | | |
| Q206 | 48T62963F02 | DTC114 | | |
| Q207 | 48T62963F02 | DTC114 | | |
| Q208 | 48T82763F31 | DTC363TL | | |
| Q209 | 48T82763F31 | DTC363TL | | |
| Q210 | 48T82763F31 | DTC363TL | | |
| Q211 | 48T82763F31 | DTC363TL | | |
| Q601 | 48T62963F03 | DTC124 | | |
| Q602 | 48T62963F10 | DTC114T | | |
| Q603 | 48T62963F10 | DTC114T | | |
| Q606 | 48T42182U01 | 2SD661 | | |
| Q607 | 48T42182U01 | 2SD661 | | |
| Q608 | 48T62963F03 | DTC124 | | |
| Q610 | 48T62963F03 | DTC124 | | |
| Q611 | 48T62963F03 | DTC124 | | |
| Q612 | 48T62962F03 | DTA124 | | |
| Q613 | 48T62962F02 | DTA114 | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Q801 | 48T52549F01 | 2SD973A | | |
| Q802 | 48S40627U01 | 2SD636 | | |
| Q803 | 48T62963F03 | DTC124 | | |
| Q804 | 48T47866F02 | 2SB644 | | |
| Q805 | 48T52549F01 | 2SD973A | | |
| Q806 | 48T62963F03 | DTC124 | | |
| Q807 | 48S42455F01 | 2SD638 | | |
| Q808 | 48T62963F03 | DTC124 | | |
| Diodes/Surge Protector | | | | |
| D6 | 48T68828F01 | 1SS133 | | |
| D7 | 48T68828F01 | 1SS133 | | |
| D201 | 48T68828F01 | 1SS133 | | |
| D202 | 48T68828F01 | 1SS133 | | |
| D203 | 48T43189F01 | 1S1555 | | |
| D204 | 48T68828F01 | 1SS133 | | |
| D205 | 48T68828F01 | 1SS133 | | |
| D206 | 48T68828F01 | 1SS133 | | |
| D207 | 48T68828F01 | 1SS133 | | |
| D601 | 48T68828F01 | 1SS133 | | |
| D602 | 48T68828F01 | 1SS133 | | |
| D603 | 48T43189F01 | 1S1555 | | |
| D604 | 48T68828F01 | 1SS133 | | |
| D605 | 48T43189F01 | 1S1555 | | |
| D606 | 48T43189F01 | 1S1555 | | |
| D610 | 48T43189F01 | 1S1555 | | |
| D611 | 48T43189F01 | 1S1555 | | |
| D612 | 48T43189F01 | 1S1555 | | |
| D613 | 48T43188F01 | 1SS133 | | |
| D615 | 48T68828F01 | 1SS133 | | |
| D616 | 48T68828F01 | 1SS133 | | |
| D617 | 48T68828F01 | 1SS133 | | |
| D618 | 48T68828F01 | 1SS133 | | |
| D619 | 48T43189F01 | 1S1555 | | |
| D620 | 48T43189F01 | 1S1555 | | |
| D621 | 48T43189F01 | 1S1555 | | |
| D622 | 48T43189F01 | 1S1555 | | |
| D623 | 48T68828F01 | 1SS133 | | |
| D624 | 48T68828F01 | 1SS133 | | |
| D625 | 48T68828F01 | 1SS133 | | |
| D626 | 48T68828F01 | 1SS133 | | |
| D629 | 48T68828F01 | 1SS133 | | |
| D801 | 48C40235G02 | 10E2 | | |
| D802 | 48C40235G02 | 10E2 | | |
| D803 | 48C40235G02 | 10E2 | | |
| D805 | 48T68828F01 | 1SS133 | | |
| D806 | 48T68828F01 | 1SS133 | | |
| ZD202 | 48T68697F31 | Zener, HZS7.5EB3 | | |
| ZD203 | 48T68697F20 | Zener, HZS5.6EB1 | | |
| ZD204 | 48T83128F01 | Zener, HZS6A−1L | | |
| ZD601 | 48T68697F37 | Zener, HZS9.1EB3 | | |

Notes : ■ : For 7179ES model only,
Tuner P. C. Board and Main P. C. Board for 7179ES model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| ZD602 | 48T68697F17 | Zener, HZS5.1EB1 | | |
| ZD605 | 48T68697F16 | Zener, HZS4.7EB3 | | |
| ZD801 | 48T68697F42 | Zener, HZS11EB1 | | |
| ZD802 | 48T83128F08 | Zener, HZS6C2L | | |
| ZD803 | 48T91071F11 | Zener, HZS5BLL | | |
| ZD804 | 48T68697F37 | Zener, HZS9.1EB3 | | |
| ZD805 | 48T83128F27 | Zener, HZS9C3LL | | |
| ZD806 | 48T91071F09 | Zener, HZS4CLL | | |
| DSP1 | 48T81909F01 | Surge Protector,<br>DSP−201M | | |
| Coils/Crystal | | | | |
| L2 | 24T50508F18 | Inductor, 4.7 μ H | | |
| L801 | 25C40894G11 | Choke, Trans 1.2mH | | |
| L802 | 24T58149F02 | Inductor, 1.2mH | | |
| X601 | 48T55073F01 | Crystal, 4.5MHz | | |
| Capacitors | | | | |
| C1 | 23S43247F10 | ELY., 22 μ F/16V | | |
| C3 | 08S65480F37 | CER., 100pF | | |
| C14 | 08S65480F61 | CER., 0.01 μ F | | |
| C208 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C209 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C210 | 08T57705F68 | MYL., 0.012 μ F | | |
| C211 | 08T42629F26 | MYL., 0.056 μ F | | |
| C212 | 08T57705F68 | MYL., 0.012 μ F | | |
| C213 | 08T42629F26 | MYL., 0.056 μ F | | |
| C214 | 08T50579F08 | TF., 0.039 μ F | | |
| C215 | 23S57422F02 | ELY., 0.22 μ F/50V | | |
| C216 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C217 | 08T50579F08 | TF., 0.039 μ F | | |
| C218 | 23S57422F02 | ELY., 0.22 μ F/50V | | |
| C219 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C220 | 08S65480F41 | CER., 220pF | | |
| C221 | 08S65480F41 | CER., 220pF | | |
| C222 | 23S43247F05 | ELY., 1 μ F/50V | | |
| C223 | 23S43247F01 | ELY., 0.1 μ F/50V | | |
| C224 | 23S43247F05 | ELY., 1 μ F/50V | | |
| C225 | 23S43247F01 | ELY., 0.1 μ F/50V | | |
| C226 | 23S43247F06 | ELY., 2.2 μ F/50V | | |
| C227 | 23S43247F10 | ELY., 22 μ F/16V | | |
| C228 | 23S43247F06 | ELY., 2.2 μ F/50V | | |
| C229 | 23S43247F10 | ELY., 22 μ F/16V | | |
| C230 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C231 | 23T73861F09 | ELY., 100 μ F/16V | | |
| C232 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C233 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C234 | 23T73861F09 | ELY., 100 μ F/16V | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| C235 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C236 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C237 | 08S65480F49 | T.F., 1000pF | | |
| C238 | 23S43247F18 | ELY., 330 μ F/6.3V | | |
| C239 | 23T68328F03 | ELY., 100 μ F/10V | | |
| C240 | 23T68328F04 | ELY., 220 μ F/10V | | |
| C241 | 23C42170G29 | ELY., 100 μ F/10V | | |
| C242 | 08T90316F31 | T.F., 0.15 μ F | | |
| C243 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C244 | 08S65480F49 | CER., 1000pF | | |
| C245 | 23S43247F18 | ELY., 330 μ F/6.3V | | |
| C246 | 23T51232F01 | ELY., 2200 μ F/16V | | |
| C247 | 08T50579F13 | TF., 0.1 μ F | | |
| C248 | 23T68328F03 | ELY., 100 μ F/10V | | |
| C249 | 23C42170G29 | ELY., 100 μ F/10V | | |
| C250 | 08T90316F31 | TF., 0.15 μ F | | |
| C257 | 23S43247F11 | ELY., 33 μ F/10V | | |
| C601 | 23T68328F15 | ELY., 47 μ F/16V | | |
| C602 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C603 | 23S43247F08 | ELY., 4.7 μ F/25V | | |
| C604 | 23S43247F10 | ELY., 10 μ F/16V | | |
| C605 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C606 | 23S43247F05 | ELY., 1 μ F/50V | | |
| C608 | 08S65480F61 | CER., 0.01 μ F | | |
| C609 | 08S65480F62 | CER., 0.022 μ F | | |
| C611 | 23T41366F40 | ELY., (B.P.)<br>1 μ F/50V | | |
| C612 | 08S65480F61 | CER., 0.01 μ F | | |
| C613 | 23T68328F03 | ELY., 100 μ F/10V | | |
| C614 | 08S65480F61 | CER., 0.01 μ F | | |
| C615 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C616 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C618 | 08T42629F28 | MYL., 0.082 μ F | | |
| C619 | 23S43247F09 | ELY., 10 μ F/16V | | |
| C620 | 23T68328F15 | ELY., 47 μ F/16V | | |
| C621 | 08S65480F62 | CER., 0.022 μ F | | |
| C622 | 23T82372F10 | ELY., (B.P.)<br>3.3 μ F/25V | | |
| C801 | 23T68328F19 | ELY., 470 μ F/16V | | |
| C802 | 23S43247F09 | ELY., 1 μ F/50V | | |
| C803 | 23T68328F04 | ELY., 220 μ F/10V | | |
| C804 | 08S65480F62 | CER., 0.022 μ F | | |
| C805 | 08T55260F21 | CER., 22pF | | |
| C806 | 08T55260F21 | CER., 22pF | | |
| C807 | 23T68328F03 | ELY., 100 μ F/10V | | |
| C808 | 23T43247F11 | ELY., 33 μ F/10V | | |
| C809 | 08S65480F61 | CER., 0.01 μ F | | |

Notes : For 7179ES model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Volume Control | | | | |
| ■ VR203 | 18T16194W06 | Volume Control, [S201 (POWER), (FADER/BALANCE)] | | |
| GT Control P. C. Board | | | | |
| IC/Transistors | | | | |
| IC1501 | 51T64606F01 | IC, TA7705F | | |
| Q1501 | 48T62967F03 | CP., DTC124K | | |
| Q1502 | 48T62967F03 | CP., DTC124K | | |
| Diodes | | | | |
| D1501 | 48T44813F01 | MA165TA | | |
| D1504 | 48C40235G02 | 10E2 | | |
| Capacitors | | | | |
| C1501 | 08S53332F33 | CP., 680pF | | |
| C1502 | 08S53332F33 | CP., 680pF | | |
| C1503 | 08S53332F33 | CP., 680pF | | |
| C1504 | 08S53332F33 | CP., 680pF | | |
| C1505 | 23S61523F07 | ELY., 47 μ F/6.3V | | |
| C1506 | 23S61523F07 | ELY., 47 μ F/6.3V | | |
| C1507 | 23S61523F13 | ELY., 10 μ F/16V | | |
| C1508 | 08S53332F48 | CP., 0.012 μ F | | |
| C1509 | 08S53332F48 | CP., 0.012 μ F | | |
| C1510 | 23S61523F17 | ELY., 47 μ F/25V | | |
| C1511 | 23T82482F02 | ELY., 100 μ F/16V | | |
| C1512 | 23S61523F12 | ELY., 10 μ F/16V | | |
| C1515 | 08S53332F41 | CP., 3300pF | | |
| C1516 | 08S53332F41 | CP., 3300pF | | |
| Resistors (All resistors are chip 1/8W±5% unless otherwise noted.) | | | | |
| R1501 | 06S53330F32 | 130 ohm | | |
| R1502 | 06S53330F32 | 130 ohm | | |
| R1503 | 06S53331F14 | 330k ohm | | |
| R1504 | 06S53331F14 | 330k ohm | | |
| R1505 | 06S53330F81 | 15k ohm | | |
| R1506 | 06S53330F81 | 15k ohm | | |
| R1507 | 06S53330F79 | 12k ohm | | |
| R1508 | 06S53330F79 | 12k ohm | | |
| R1509 | 06S53330F89 | 33k ohm | | |
| R1510 | 06S53330F94 | 51k ohm | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| R1511 | 06S53331F02 | 100k ohm | | |
| R1512 | 06S53330F89 | 33k ohm | | |
| R1513 | 06S53331F01 | 91k ohm | | |
| R1514 | 06S53330F85 | 22k ohm | | |
| R1515 | 06S53330F29 | 100 ohm | | |
| R1523 | 06S53330F85 | 22k ohm | | |
| R1524 | 06S53330F53 | 1k ohm | | |
| R1528 | 06S64995F85 | 22k ohm | | |
| R1529 | 06S53330F89 | 33k ohm | | |
| R1530 | 06S53330F89 | 33k ohm | | |
| R1531 | 06S53330F89 | 33k ohm | | |
| R1532 | 06S53330F89 | 33k ohm | | |
| Display P. C. Board | | | | |
| LED's | | | | |
| LD401 | 48T51833F03 | BG4524K (GRN) | | |
| LD402 | 48T51833F03 | BG4524K (GRN) | | |
| Switches | | | | |
| S401 | 40T70366F01 | Tact, KHL-10906 (BAND) | | |
| S402 | 40T70366F01 | Tact, KHL-10906 (DAP) | | |
| S403 | 40T70366F01 | Tact, KHL-10906 (DX) | | |
| ■ S404 | 40T70366F01 | Tact, KHL-10906 (LOUD R. MONI) | | |
| ▲ S404 | 40T70366F01 | Tact, KHL-10906 (LOUD R. MONI) | | |
| ● S404 | 40T70366F01 | Tact, KHL-10906 (LOUD/SDK) | | |
| S405 | 40T70366F01 | Tact, KHL-10906 (M4) | | |
| S406 | 40T70366F01 | Tact, KHL-10906 (M3) | | |
| S407 | 40T70366F01 | Tact, KHL-10906 (M2) | | |
| S408 | 40T70366F01 | Tact, KHL-10906 (M1/MS) | | |
| S409 | 40T70366F01 | Tact, KHL-10906 (M6) | | |
| S410 | 40T70366F01 | Tact, KHL-10906 (M5) | | |
| S411 | 40T70366F01 | Tact, KHL-10906 (MONO) | | |
| S412 | 40T70366F01 | Tact, KHL-10906 (DOWN) | | |
| S413 | 40T70366F01 | Tact, KHL-10906 (UP) | | |

Notes : ● : For 7179MS model only, ■ : For 7179ES model only,
▲ : For 7179LS model only, Others : Common.

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | S414 | 40T70366F01 | Tact, KHL−10906<br>(TUNE) | | |
| | Lamps | | | | |
| | PL401 | 65T95083F01 | Pilot, 6.7V−85mA | | |
| | PL402 | 65T95274F02 | Pilot, 6V−70mA | | |
| | PL403 | 65T95274F02 | Pilot, 6V−70mA | | |
| | PL404 | 65T95274F02 | Pilot, 6V−70mA | | |
| | Resistors | | | | |
| | R402 | 06S81904F44 | M.F., 130 ohm1／2W | | |
| | R404 | 06T67581F15 | C.F. 39 ohm 1／2W | | |
| | VR401 | 18T93886F02 | Volume,<br>20k ohm A×2<br>(TREBLE／BASS) | | |
| | Miscellaneous | | | | |
| | BA801 | 60T91060F03 | Battery, Lit CR2032 | | |
| ● | E801 | 01T94841F07 | Assy., QRB Connector<br>(Socket) | | |
| ▲ | E801 | 01T94841F07 | Assy., QRB Connector<br>(Socket) | | |
| ■ | E801 | 01T95067F03 | Assy., QRB Connector<br>(Socket) | | |
| | HD1501 | 88T15795W01 | Head, Playback | | |
| ■ | LCD401 | 65T15415W01 | LCD, Display | | |
| ▲ | LCD401 | 65T15889W01 | LCD, Display<br>(L／M) | | |
| ● | LCD401 | 65T15889W01 | LCD, Display<br>(L／M) | | |
| | M1501 | 01V14500W41 | Assy., Motor | | |
| | S1501 | 40T52216F01 | Switch, Micro | | |
| | S1502 | 40T71025F03 | Switch, Detector | | |
| | S1503 | 40T15222W01 | Switch, Detector | | |
| | S1504 | 40T15222W01 | Switch, Detector | | |
| | SD1501 | 01T80451F01 | Assy., Keep Solenoid | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|

Notes : ● : For 7179MS model only, ■ : For 7179ES model only,
▲ : For 7179LS model only, Others : Common.

# Cabinet Assembly Parts List

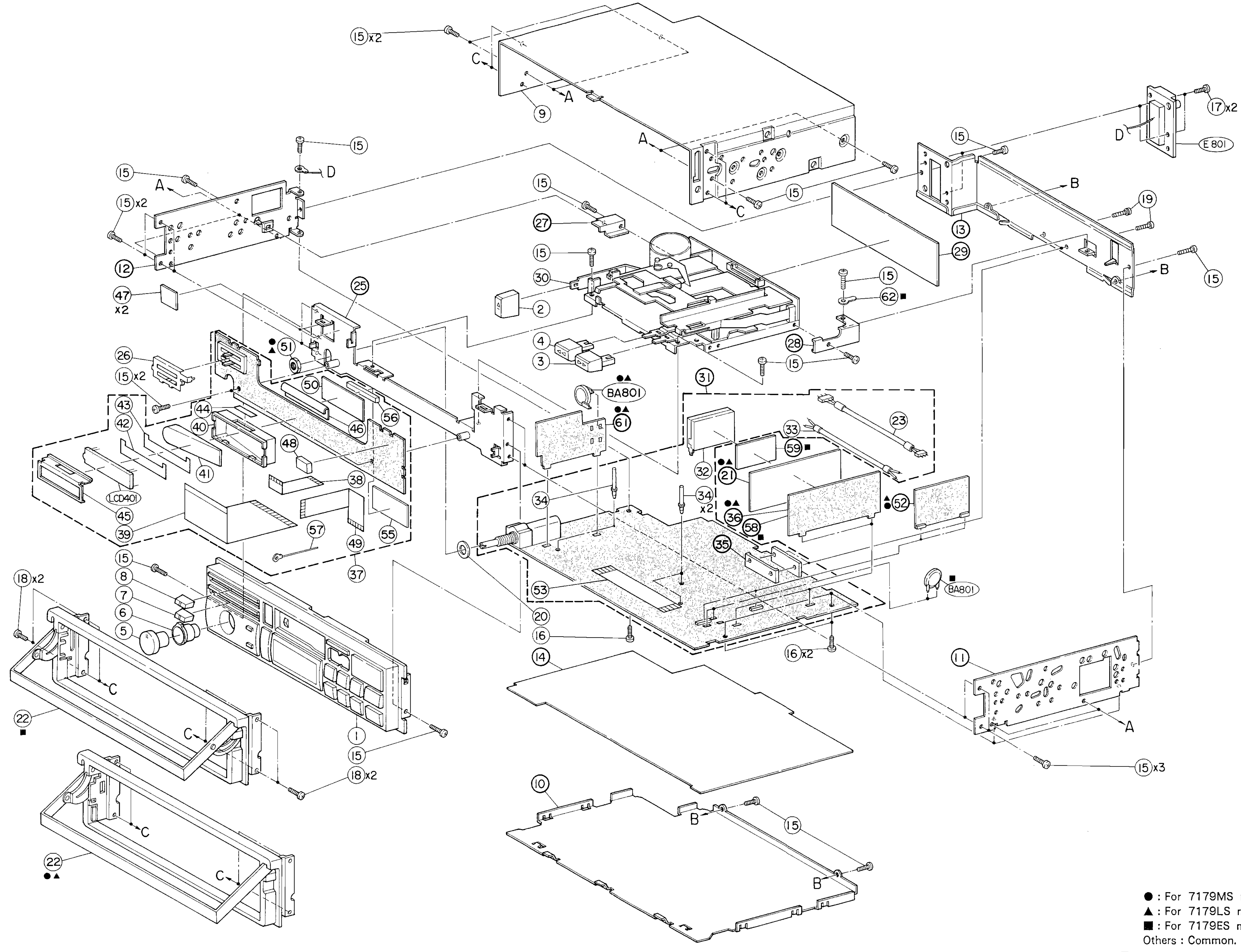
NOTE : The parts without part numbers are not supplied.

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| ● | 1 | 4-C | 13D11303W04 | Assy., Nosepiece | | |
| ■ | 1 | 4-C | 13D13046W05 | Assy., Nosepiece | | |
| ▲ | 1 | 4-C | 13D13046W04 | Assy., Nosepiece | | |
| | 2 | 2-D | 36B94059F01 | Knob, Eject | | |
| | 3 | 3-D | 36B94060F01 | Knob, FF | | |
| | 4 | 2-D | 36B94061F01 | Knob, REW | | |
| | 5 | 4-B | 36A94114F01 | Knob, Control (Front) | | |
| | 6 | 4-B | 36A94115F01 | Knob, Control (Back) | | |
| | 7 | 4-B | 36A94418F01 | Knob, Slide | | |
| | 8 | 4-B | 36A94418F02 | Knob, Slide (B) | | |
| | 9 | 1-D | 15C94345F01 | Cover, Top | | |
| | 15 | | 03S44205G07 | Screw, Pan (M2.6 × 5) | | |
| | 16 | | 03S44205G48 | Screw, Pan (M2.6 × 5) | | |
| | 17 | 1-G | 03S44205G33 | Screw, Pan (M2.6 × 8) | | |
| | 18 | | 03S44205G34 | Screw, Pan (M2.6 × 5) | | |
| | 19 | 2-G | 03D40014G08 | Screw, W/Washer (M2.6 × 8) | | |
| ● | 20 | 4-D | 04A42792J11 | Washer, Flat (M14) | | |
| ■ | 20 | 4-D | 04S40070G71 | Washer, Flat (M14) | | |
| ▲ | 20 | 4-D | 04A42792J11 | Washer, Flat (M14) | | |
| ● | 22 | 5-A | 07C10065W01 | Assy., Handle Bracket | | |
| ■ | 22 | 4-A | 07C10065W01 | Assy., Handle Bracket | | |
| ▲ | 22 | 5-A | 07C10065W01 | Assy., Handle Bracket | | |
| ● | 23 | 3-F | 01T94493F02 | Assy., Connector (3P) | | |
| ■ | 23 | 3-F | 01T95068F01 | Assy., Connector (3P) | | |
| ▲ | 23 | 3-F | 01T94493F02 | Assy., Connector (3P) | | |
| | 26 | 3-B | 07A96021F01 | Bracket, Shield (Volume) | | |
| | 30 | 2-D | 81D12410W01 | Deck, Cassette (GT75L010) | | |
| ● | 32 | 3-E | 77T94489F01 | Tuner, Unit (FE1) (TFFE2U143A) | | |
| ■ | 32 | 3-E | 77T74537F03 | Tuner, Unit (FE1) (TFFE2U123C) | | |

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| ▲ | 32 | | 77T94489F01 | Tuner, Unit (FE1) (TFFE2U143A) | | |
| ■ | 33 | 3-E | 01T83932F06 | Assy., Shield Wire | | |
| ▲ | 33 | 3-E | 01T94494F06 | Assy., Shield Wire | | |
| ● | 33 | 3-E | 01T94494F06 | Assy., Shield Wire | | |
| | 34 | | 09T84840F01 | Lug, Style 18mm | | |
| ● | 37 | 4-C | 01V14800W45 | Assy., Display P.C. Board | | |
| ■ | 37 | 4-C | 01V14700W19 | Assy., Display P. C. Board | | |
| ▲ | 37 | 4-C | 01V14800W45 | Assy., Display P.C. Board | | |
| ● | 38 | 3-C | 01T94498F01 | Wire, Parallel (8P) | | |
| ■ | 38 | 3-C | 01T95070F03 | Wire, Parallel (8P) | | |
| ▲ | 38 | 3-C | 01T94498F01 | Wire, Parallel (8P) | | |
| ● | 39 | 3-B | 01T94498F04 | Wire, Parallel (32P) | | |
| ■ | 39 | 3-B | 01T95070F04 | Wire, Parallel (30P) | | |
| ▲ | 39 | 3-B | 01T94498F04 | Wire, Parallel (32P) | | |
| | 40 | 3-B | 15B94066F01 | Case, LCD | | |
| | 41 | 3-B | 61A94067F01 | Lens, LCD | | |
| | 42 | 3-B | 26A94068F01 | Reflector, Sheet | | |
| | 43 | 3-B | 26A94068F02 | Reflector, Sheet | | |
| | 44 | 3-B | 26A83087F08 | Reflector, Door | | |
| | 45 | 3-B | 07A94069F01 | Bracket, Shield | | |
| | 46 | 3-C | 14S81482F88 | Insulator, Cover | | |
| | 47 | 2-B | 14S58462F42 | Insulator, Cover | | |
| | 48 | 3-C | 75S92415F67 | Cushion, Rubber | | |
| ● | 49 | 3-C | 30T82417F01 | Flat Cable (12P) | | |
| ■ | 49 | 3-C | 01T95071F01 | Assy., Card Wire (12P) | | |
| ▲ | 49 | 3-C | 30T82417F01 | Flat Cable (12P) | | |
| | 50 | 3-C | 14S81482F89 | Insulator, Cover | | |
| | 51 | 3-C | 02S40000G20 | Nut, Hex (M9) | | |
| ● | 53 | 4-D | 01T94492F01 | Flat Cable (4P) | | |
| ■ | 53 | 4-D | 01T95070F01 | Assy., Flat Cable (5P) | | |
| ▲ | 53 | 4-D | 01T94492F01 | Flat Cable (4P) | | |
| | 55 | 3-C | 14A10323W01 | Insulator, Shield | | |
| | 56 | 3-C | 75S92415F72 | Cushion, Rubber | | |
| | 57 | 3-C | 01T95113F01 | Lug, Wire | | |
| ■ | 62 | 2-F | 29A737272 | Lug, Wrap Around | | |

Notes : ● : For 7179MS model only, ■ : For 7179ES model only,
▲ : For 7179LS model only, Others : Common.

# Exploded View (Cabinet)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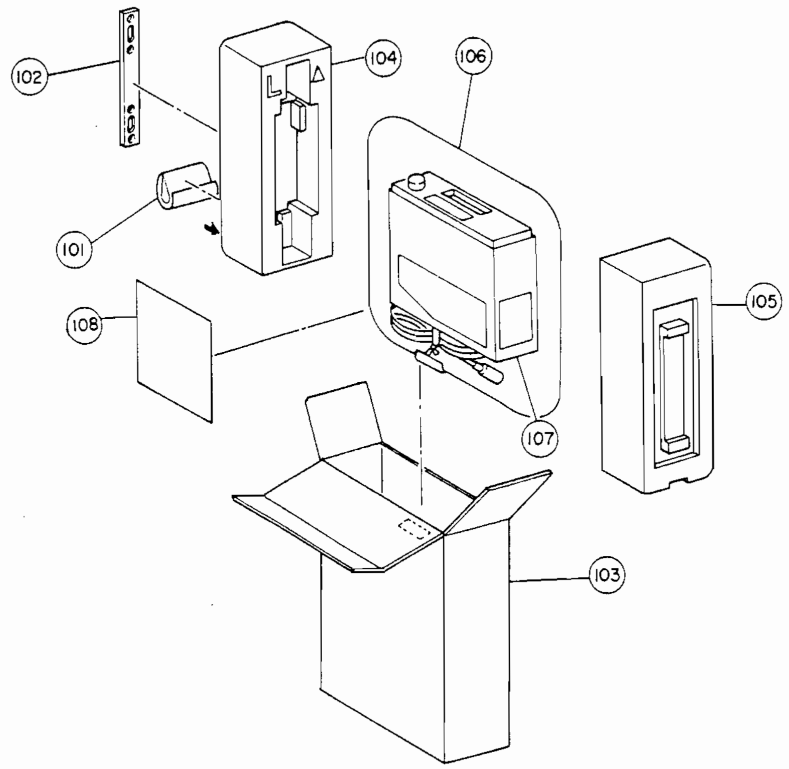
● : For 7179MS model only
▲ : For 7179LS model only
■ : For 7179ES model only
Others : Common.

# Packing Assembly Parts List

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| 101 | 01V11900W90 | Assy., Kit Installation | | |
| 101-1 | 02B47353F01 | Nut, Hex (M5) | | |
| 101-2 | 03B44963F03 | Bolt, Hex W/Washer (M5 × 10) | | |
| 101-3 | 03S63857F05 | Screw, Tapping (M5 × 15) | | |
| 101-4 | 03S52360F37 | Screw, Countersunk (M4 × 8) | | |
| 101-5 | 45A41684U01 | Arm, Adapter | | |
| 101-6 | 46A42363F01 | Stud, Bolt | | |
| 101-7 | 03A40155F01 | Bolt, Hex (M5 × 8) | | |
| 101-8 | 03A84814F04 | Screw, Bind (M2.6 × 18) | | |
| 101-9 | 43A58272F04 | Spacer | | |
| 102 | 07B64552F01 | Bracket, Strap Receiver | | |
| ■ 103 | 56S12717W34 | Carton, Packing (Individual) | | |
| ▲ 103 | 56S12717W33 | Carton, Packing (Individual) | | |
| ● 103 | 56S12717W13 | Carton, Packing (Individual) | | |
| 104 | 56D82187F01 | Tray, Packing (L) | | |
| 105 | 56D82187F02 | Tray, Packing (R) | | |
| 106 | 56B40990T36 | Sack, Polyethylene | | |
| 107 | 01V16100W42 | Assy., Mother Case | | |
| 107-1 | 15D94518F01 | Case, Mother | | |
| 107-2 | 03S44205G33 | Screw, Pan (M2.6 × 8) | | |
| 107-3 | 03S44205G29 | Screw, Pan (M2.6 × 6) | | |
| 107-4 | 01T94840F12 | Assy., QRB Connector | | |
| ● 108 | 68P10791W20 | Owner's Manual | | |
| ▲ 108 | 68P10791W26 | Owner's Manual | | |
| ■ 108 | 68P10791W27 | Owner's Manual | | |

Notes : ● : For 7179MS model only, ■ : For 7179ES model only,
▲ : FOr 7179LS model only, Others : Common.

# Packing Method View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# Semi-Conductor Lead Identifications

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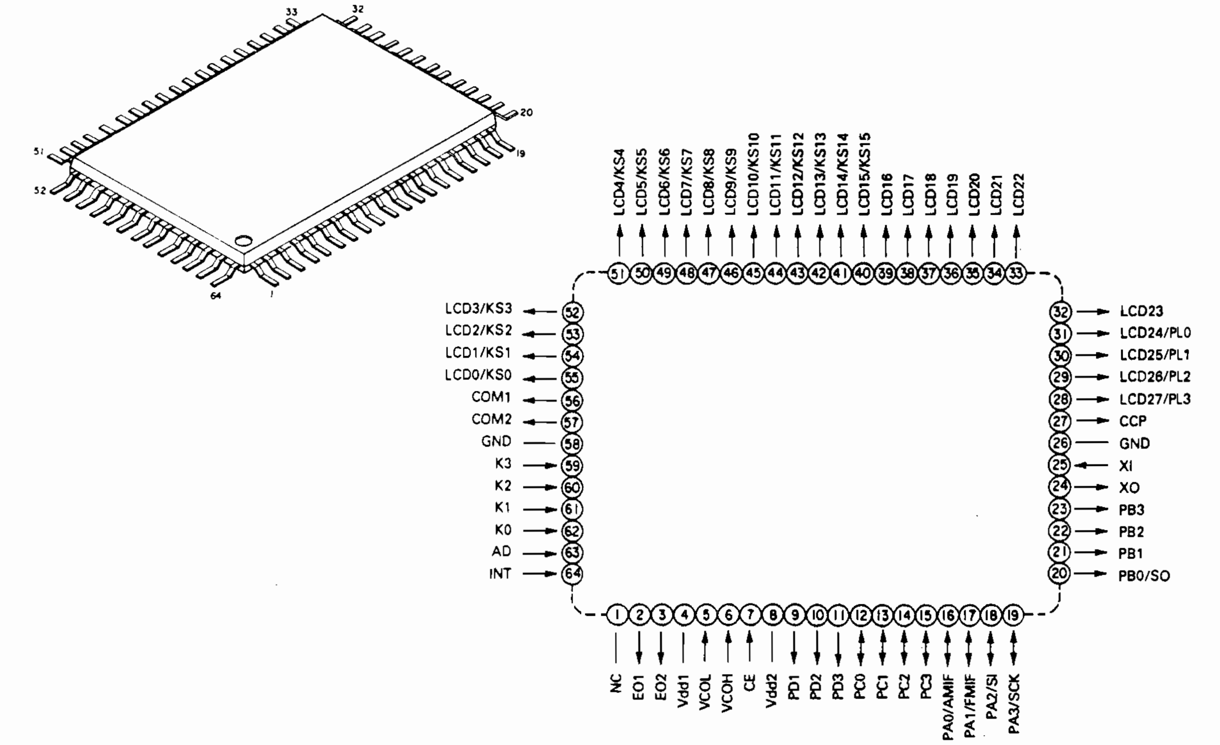
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COM2 (57)
GND (58)
K3 (59)
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AD (63)
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㉛ LCD24/PL0
㉚ LCD25/PL1
㉙ LCD26/PL2
㉘ LCD27/PL3
㉗ CCP
㉖ GND
㉕ XI
㉔ XO
㉓ PB3
㉒ PB2
㉑ PB1
⑳ PB0/SO
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NC
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EO2
Vdd1
VCOL
VCOH
CE
Vdd2
PD1
PD2
PD3
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PC1
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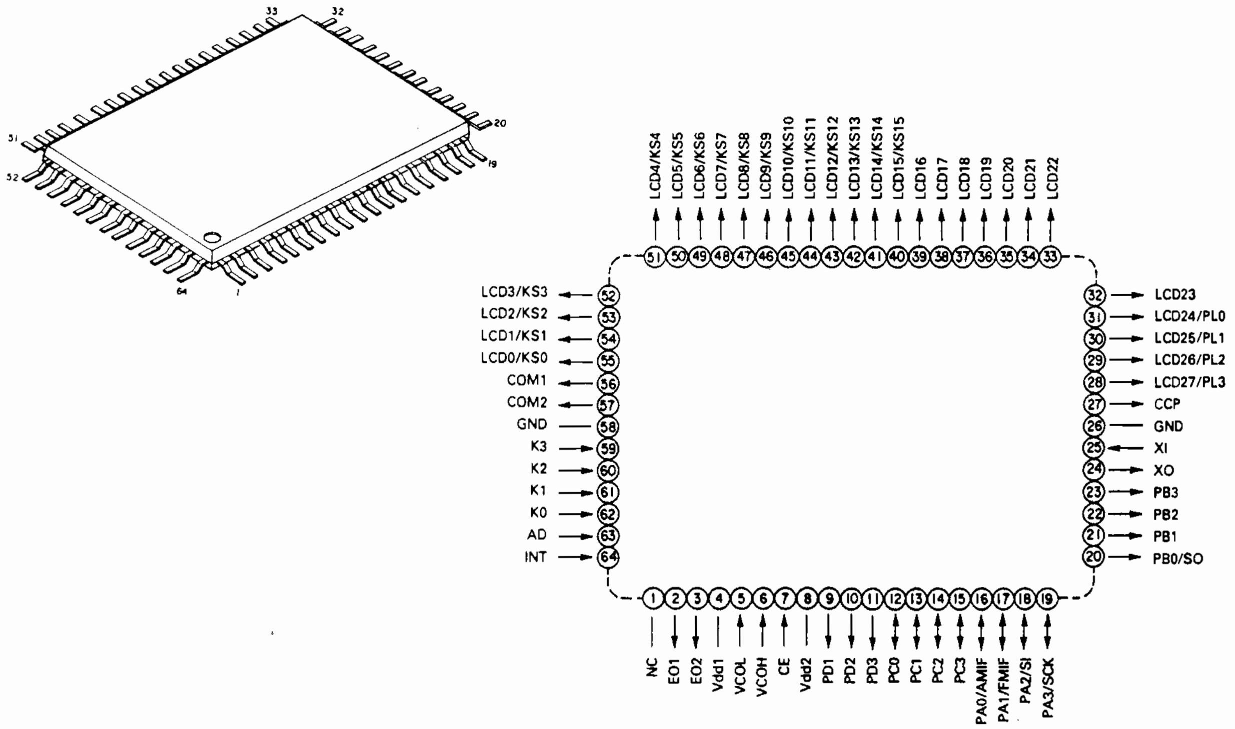
PC3
PA0/AMIF
PA1/FMIF
PA2/SI
PA3/SCK

15515W02 : ■IC601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㉛ LCD24/PL0
㉚ LCD25/PL1
㉙ LCD26/PL2
㉘ LCD27/PL3
㉗ CCP
㉖ GND
㉕ XI
㉔ XO
㉓ PB3
㉒ PB2
㉑ PB1
⑳ PB0/SO
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Vdd1
VCOL
VCOH
CE
Vdd2
PD1
PD2
PD3
PC0
PC1
PC2
PC3
PA0/AMIF
PA1/FMIF
PA2/SI
PA3/SCK

Notes : ○ : For 7179MS/LS models only, ■ : For 7179ES model only.

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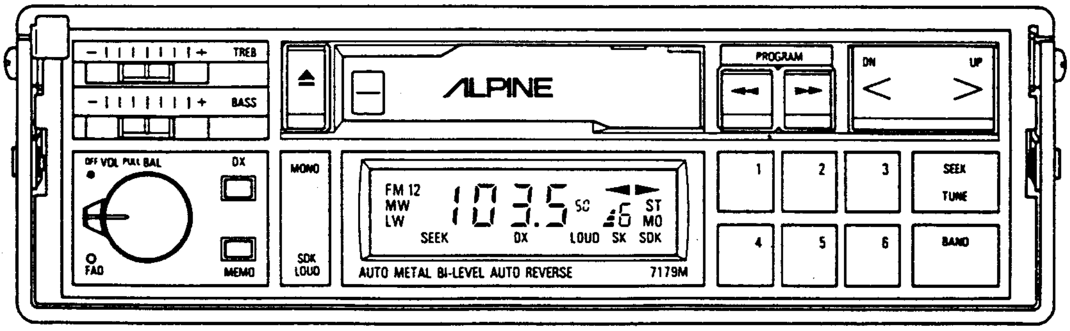
4/89-S
68P20517W01
Printed in Japan

# ALPINE SERVICE MANUAL

## Digital Tuner Cassette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7179M
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SEEK
TUNE
BAND

"For the cassette deck mechanism parts (GT75B01B) of this model, refer to the GT Series Service Manual (Part No. 68P92539F01)."

# 7179M/L/E

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# Specifications

**FM RADIO**

| | |
|---|---|
| Intermediate Frequency | 10.7±0.1MHz |
| Frequency Range | 87.5 to 108MHz |
| Usable Sensitivity (Stereo at 98.1MHz) | 19.2dBf (7179M/L Models Only)<br>17.2dBf (7179E Model Only) |
| Limiting Sensitivity (98.1MHz) | 14.2±5dBf (7179M/L Models Only)<br>19.2dBf (7179E Model Only) |
| S/N Ratio (Stereo 60dB μ 98.1MHz) | 50dB |
| Image Rejection (at 106.1MHz) | 40dB |
| IF Rejection (at 90.1MHz) | 60dB |
| Distortion (Input 1V at 98.1MHz) | 2% |
| Frequency Response (Ref. 400Hz) | 80Hz : 0±3dB (7179E Model Only)<br>100Hz : 0±3dB (7179M/L Models Only)<br>10kHz : −12±3dB |
| Stereo Separation (at 1,000Hz) | 25dB |
| SK Sensitivity (at 98.1MHz) | 25.2dBf (7179M Model Only) |

**AM RADIO (7179E Model Only)**

| | |
|---|---|
| Intermediate Frequency | 450kHz |
| Frequency Range | 531 to 1,602kHz |
| Sensitivity 20dB S/N (at 999kHz) | 45.2dBf |
| S/N Ratio (at 999kHz) | 44dB |
| Image Rejection (at 1,404kHz) | 44dB |
| IF Rejection (at 603kHz) | 60dB |
| Distortion (at 999kHz) | 1% |
| Frequency Response | 100Hz : −3±5dB<br>4kHz : −12±5dB |

### MW RADIO (7179M/L Model Only)

| | |
|---|---|
| Intermediate Frequency | 450±5kHz |
| Frequency Range | 531 to 1,602kHz |
| Sensitivity 20dB S/N (at 999kHz) | 45.2dBf |
| S/N Ratio (at 999kHz) | 44dB |
| Image Rejection (at 1,404kHz) | 45dB |
| IF Rejection (at 603kHz) | 60dB |
| Distortion (at 999kHz) | 1% |
| Frequency Response | 100Hz : −3±3dB<br>4kHz : −12±6dB |

### LW RADIO (7179M/L Model Only)

| | |
|---|---|
| Intermediate Frequency | 450±5kHz |
| Frequency Range | 153 to 281kHz |
| Sensitivity 20dB S/N (at 218kHz) | 48.2dB |
| S/N Ratio (at 218kHz) | 40dB |
| Image Rejection (at 272kHz) | 40dB |
| IF Rejection (at 218kHz) | 60dB |
| Distortion (at 400kHz) | 1.5% |
| Frequency Response | −3±3dB (100Hz)<br>−12±6dB (4kHz) |

### TAPE PLAYER

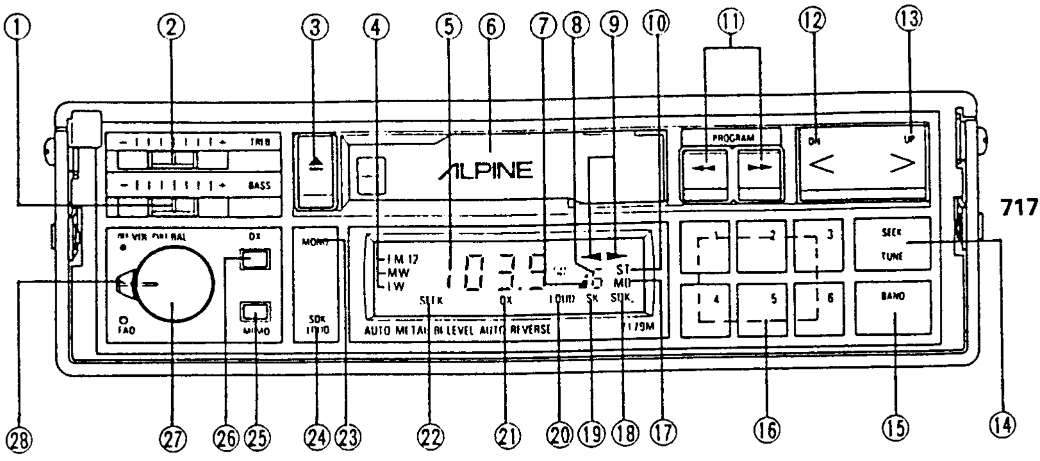
| | |
|---|---|
| Tape Speed (MTT-111) | 4.76cm/sec. +3% to −1% |
| Wow & Flutter (JIS, WRMS/MTT-111) | 0.25% |
| S/N Ratio (MTT-112) | 50dB (7179M/L Models Only)<br>52dB (7179E Model Only) |
| Distortion (MTT-118) | 2% |
| Frequency Response (Ref. 1kHz, −3dB, MTT-256) | 63Hz to 10kHz |
| Frequency Response (Ref. 1kHz, −3dB, MTT-356) | 63Hz to 10kHz |
| Separation (MTT-141) | 30dB |
| Crosstalk (MTT-121) | 45dB |
| FF & RWD Time (C-60) | 100 sec. |

### GENERAL

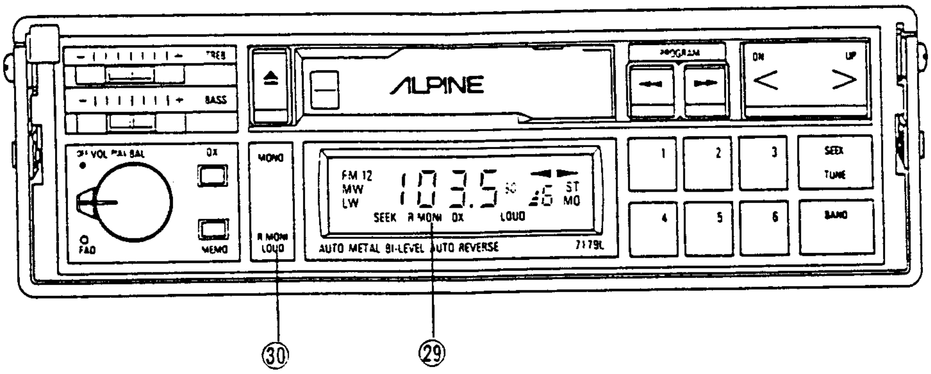
| | |
|---|---|
| Load Impedance | 4 ohms (Speaker Out) |
| Power Supply | 14VDC |
| Power-Output (10% T.H.D) | 400Hz : 3.5W/ch (7179E/M Models Only)<br>1kHz : 3.5W/ch (7179L Model Only) |
| Pre-Output Voltage | 1,200mV±3dB (7179M/L Models Only)<br>1.2V (7179E Model Only) |
| Chassis Dimensions | 178 (W) ×50 (H) ×160 (D) mm (7179L/M Models Only)<br>178 (W) ×50 (H) ×153 (D) mm (7179E Model Only) |
| Nose Dimensions | 176 (W) ×50 (H) ×11 (D) mm (7179M/L Models Only)<br>171 (W) ×48 (H) ×15mm (7179E Model Only) |
| Semiconductors | 9 IC's, 34 Transistors, 420 Diodes, 12 Zener Diodes (7179E Model Only)<br>11 IC's, 47 Transistors, 52 Diodes, 13 Zener Diodes (7179M Model Only)<br>9 IC's, 36 Transistors, 43 Diodes, 12 Zener Diodes (7179L Model Only) |
| Weight | 1.7kg (7179M/L Models Only)<br>1.8kg (7179E Model Only) |

**NOTE :** Due to continuing product improvement, specifications and designs are subject to change without notice.

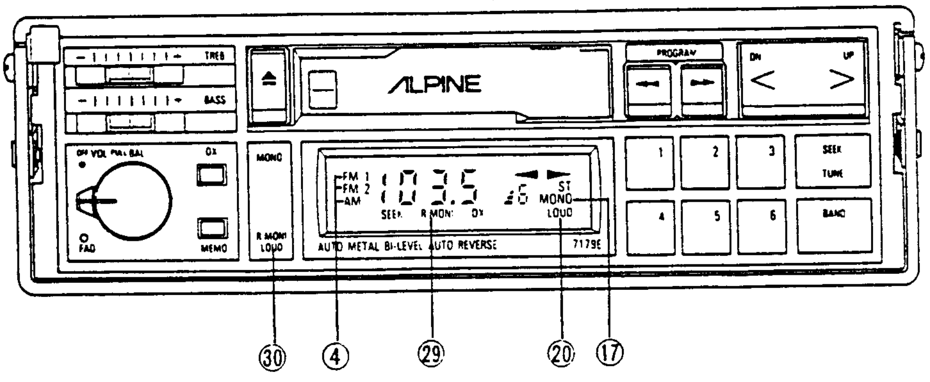
# CONTROLS & INDICATORS


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
TREB
BASS
ALPINE
PROGRAM
DN
UP
OFF VOL PULL BAL
DX
MONO
FM 12
MW
LW
103.5
ST
MO
SEEK
DX
LOUD
SK
SDK
SDK LOUD
MEMO
FAD
1
2
3
4
5
6
SEEK
TUNE
BAND
AUTO METAL BI-LEVEL AUTO REVERSE
7179M
㉘
㉗
㉖
㉕
㉔
㉓
㉒
㉑
⑳
⑲
⑱
⑰
⑯
⑮
⑭

**7179M model**


TREB
BASS
ALPINE
PROGRAM
DN
UP
OFF VOL PULL BAL
DX
MONO
FM 12
MW
LW
103.5
ST
MO
SEEK
R.MONI
DX
LOUD
R.MONI LOUD
MEMO
FAD
1
2
3
4
5
6
SEEK
TUNE
BAND
AUTO METAL BI-LEVEL AUTO REVERSE
7179L
㉚
㉙

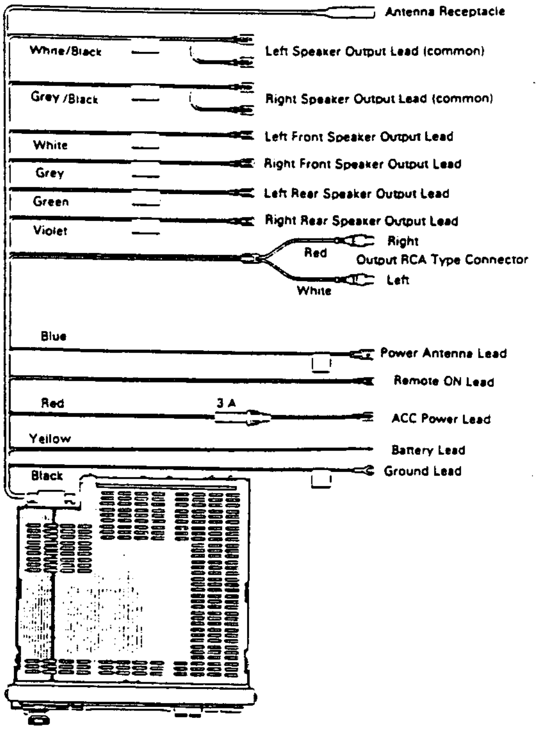
**7179L model**


TREB
BASS
ALPINE
PROGRAM
DN
UP
OFF VOL PULL BAL
DX
MONO
FM 1
FM 2
AM
103.5
ST
MONO
SEEK
R.MONI
DX
LOUD
R.MONI LOUD
MEMO
FAD
1
2
3
4
5
6
SEEK
TUNE
BAND
AUTO METAL BI-LEVEL AUTO REVERSE
7179E
㉚
④
㉙
⑳
⑰

**7179E model**

① BASS Control
② TREBle Control
③ EJECT Switch
④ Radio Band Indicator
⑤ Frequency Indicator
⑥ Cassette Loading Slot
⑦ Memory Indicator
⑧ Preset Channel Indicator
⑨ Tape Direction Indicator
⑩ FM Stereo Reception Indicator (ST)
⑪ PROGRAM/FF & REW Switches
⑫ Tuning (DN) Switch
⑬ Tuning (UP) Switch
⑭ SEEK TUNE Switch
⑮ BAND Select Switch
⑯ Station Preset Switches (Radio Mode)
⑰ Monaural Indicator (MO)
⑱ **SDK Indicator (7179M model only)**
⑲ **SK Indicator (7179M model only)**
⑳ LOUDness Indicator
㉑ DX (Local/Distance) Indicator
㉒ SEEK Tuning Indicator
㉓ Monaural Switch (MONO)
㉔ SDK/LOUDness** Switch (7179M model only)
㉕ MEMOry Switch
㉖ DX (Local/Distance) Switch
㉗ Power on/OFF Switch/VOLume Control/BALance Control (Pull)
㉘ FADer Control
㉙ **Radio Monitor Indicator (R. MONI) (7179L/E models only)**
㉚ **R.MONI/LOUDness** Switch (7179L/E models only)**

# CONNECTIONS


Antenna Receptacle
White/Black
Left Speaker Output Lead (common)
Grey /Black
Right Speaker Output Lead (common)
White
Left Front Speaker Output Lead
Grey
Right Front Speaker Output Lead
Green
Left Rear Speaker Output Lead
Violet
Right Rear Speaker Output Lead
Red
Right
Output RCA Type Connector
White
Left
Blue
Power Antenna Lead
Remote ON Lead
Red
3 A
ACC Power Lead
Yellow
Battery Lead
Black
Ground Lead

**Output RCA Type connectors**
RCA type connectors are for connecting the unit to an unit having RCA type input terminals.

**Power Antenna Lead**
Connect the power antenna control lead (Blue) to the connector of full automatic power antenna. Power antenna control does not work with semi-automatic or manually operated antenna.

**ACC Power Lead**
This lead is to be connected to an ignition terminal in the vehicle's fuse box or a terminal which develops + 12 V when the ignition is turned on.

**Remote ON Lead**
If the unit is connected to your Amp unit with RCA jacks, connect the remote ON lead to the male connector of the unit remote ON lead.

**CAUTION:**
Before connecting any wire, set the volume level to minimum by turning the power ON/OFF switch knob counterclockwise.

# OPERATION

## ‹TAPE PLAYER OPERATION›

1. Turn the power on by rotating the VOLume control/power switch ㉗ clockwise. With the tape opening to the right, insert the cassette into the loading slot as far as it will go. One of the tape direction indicators ⑨will light and the tape will start playing.
2. If a metal or $CrO_2$ cassette tape is inserted, the tape mechanism automatically sets itself for 70µsec equalization.
3. Adjust VOLume ㉗, BASS ①, TREBle ②, BALance ㉗ and FADer ⑳ controls to suit your listening preference. Tape reverses automatically at the end of the tape to play the other side.
4. To change from side A to play side B or vice versa before the end of the tape is reached, press the PROGRAM switch ⑪.
5. To stop tape play, press the EJECT switch ③.
6. To turn the power OFF, fully rotate the VOLume control counterclockwise.

### Winding the Tape Rapidly in Forward or Reverse Direction

1. Press the PROGRAM Switch ( ◂◂ or ▸▸ button) ⑪ until it locks and the tape will run rapidly in the designated direction.
2. Lightly press the other button to stop the Fast Winding mode. The tape will start playing again.
3. When the Fast Winding operation reaches the end of the tape, the mode will automatically switch to playback.

### AUTO PAUSE

When the unit is removed from its bracket, it automatically goes into the Tape Pause Mode, the tape disengages from the capstan and pinch roller but the cassette stays in the unit. When the unit is re-inserted into the bracket, tape play will resume from the point in which it was stopped.

### Key-off Pause

If the ignition is turned off while a cassette is playing, the tape disengages from the tape head, capstan, and pinch roller, but the cassette remains in the cassette compartment with the cassette door completely closed. When the ignition switch is turned on again, playback will begin from the point where it was left off.

### Radio Monitor (7179L/E models only)

Pushing the RADIO MONITOR/LOUDNESS switch ㉚, Radio Monitor is activated and R MONI indicator ㉙ will light, you can receive the last tuned station or operate seek tuning UP ⑬ and DOWN ⑫. Push this switch for 3 seconds or more to activate LOUDNESS function; LOUD indicator lights up. Low frequency sound will be boosted at low sound contents. Push the switch again for 3 seconds or more to release the function.

## ‹RADIO OPERATION›

### MANUAL and AUTOMATIC SEEK TUNING
### (7179M / L models only)

The radio does not operate in the tape play mode. To listen to the radio, eject the cassette by pressing the EJECT switch ③. Pressing the EJECT switch ⑨ during tape play causes the tape in the loading slot to be ejected.

1. Turn on the power by turning the VOLume control/Power OFF switch ㉗ clockwise. Continue to rotate it until the desired volume level is reached.
2. Push Radio BAND select switch ⑮ for reception of MW, LW or FM (FM 1 or FM2). The radio BAND Indicator ④ will be on, and the ST (stereo) indicator ⑩ will also be on during FM stereo reception.
3. Adjust BASS ①, TREBle ②, BALance ㉗, and FADer ㉘ controls to their center positions.
4. To automatically tune, press the SEEK TUNE button ⑭ and then either UP ⑬ or DN ⑫ tuning button. The SEEK indicator ㉒ appears on the display and the frequency changes to indicate that the radio is in the auto SEEK tuning mode and

ready to stop at every strong station. Repeat the procedure until your desired station is obtained. When the radio reaches the upper or lower end of the band, it automatically starts scanning in the opposite direction. To return to manual tuning, press the SEEK TUNE button again, the SEEK indicator disappears.

5. To manually tune, press the Tuning Switch (UP) ⑬ for higher frequency broadcasts, and press the Tuning Switch (DN) ⑫ for lower frequency broadcasts.
6. Adjust VOLume ㉗, BASS ①, TREBle ②, BALance ㉗, and FADer ㉘, to suit your listening preference.
7. To switch from FM to MW/LW or vice versa press the BAND select switch ⑮.

**Memory Operation (7179M / L models only)**

1. Select FM1, FM2, MW or LW by pressing the BAND select switch ⑮.
2. Select a station manually or by SEEK tuning.
3. Press the MEMOry switch ㉕. The memory indicator ⑦ will light.
4. Press a Station Preset switch to preset the station in MEMORY.
5. Repeat steps 2, 3 and 4 to preset up to 6 stations per band (FM1, FM2, MW or LW) total 24 stations. Press one of the unused Station Preset switches ⑯ each time.
6. Press the Radio Band select switch ⑮ to preset six stations on another band. Follow Steps 2, 3, 4, and 5. Remember, there are altogether four (FM1, FM2, MW and LW) bands.
7. To tune in a frequency programmed into memory, press the desired station preset switch, 1 through 6. If the radio is set to MW or LW, you'll receive an MW or LW frequency. If in the FM mode, you'll receive an FM.
8. Adjust VOLume ㉗, BASS ①, TREBle ②, BALance ㉗, and FADer ㉘, to suit your listening preference.

**MANUAL and AUTOMATIC SEEK TUNING (7179 E model only)**

The radio does not operate in the tape play mode. To listen to the radio, eject the cassette by pressing the EJECT switch ③.

1. Turn on the power by turning the VOLume control/Power OFF switch ㉗ clockwise. Continue to rotate it until the desired volume level is reached.
2. Push Radio BAND select switch ⑮ for reception of AM or FM (FM 1 or FM2). The radio band Indicator ④ will be on, and the ST [stereo] indicator ⑩ will also be on during FM stereo reception.
3. Adjust BASS ①, TREBle ②, BALance ㉗, and FADer ㉘ controls to their center positions.
4. To automatically tune, press the SEEK TUNE button ⑭ and then either UP or DN tuning button. The SEEK indicator ㉒ appears on the display and the frequency changes to indicate that the radio is in the auto SEEK tuning mode and ready to stop at every strong station. Press the tuning button until your desired station is obtained. When the radio reaches the upper of lower end of the band, it automatically starts scanning in the opposite direction. To return to manual tuning, press the SEEK TUNE button again, the SEEK indicator disappears.
5. To manually tune, press the Tuning Switch (UP) ⑬ for higher frequency broadcasts, and press the Tuning Switch (DN) ⑫ for lower frequency broadcasts.
6. Adjust VOLume ㉗, BASS ①, TREBle ②, BALance ㉗, and FADer ㉘, to suit your listening preference.
7. To switch from FM to AM or vice versa press the BAND select switch ⑮.

**Memory Operation (7179 E model only)**

1. Select FM1, FM2, or AM by pressing the BAND select switch ⑮.
2. Select a station manually or by SEEK tuning.
3. Press the MEMOry switch ㉕. The memory indicator will light.
4. Press a Station Preset switch to preset the station in MEMORY.
5. Repeat steps 2, 3 and 4 to preset up to 6 stations per band (FM1, FM2 or AM) total 18 stations. Press one of the unused Station Preset switches ⑯ each time.
6. Press the Radio Band select switch ⑮ to preset six stations on another band. Follow Steps 2, 3, 4, and 5. Remember, there are altogether three (FM1, FM2, and AM) bands.
7. To tune in a frequency programmed into memory, press the desired station preset switch, 1 through 6. If the radio is set to AM, you'll receive an AM frequency. If in the FM mode, you'll receive an FM.
8. Adjust VOLume ㉗, BASS ①, TREBle ②, BALance ㉗, and FADer ㉘, to suit your listening preference.

**FM STEREO/MONAURAL Selection (MONO Switch)**

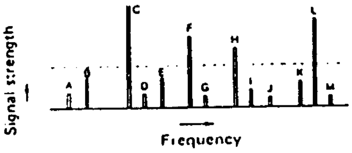
During stereo reception, should the signal level become weak (the "ST" indicator ⑩ in the display blinks), select monaural reception by pressing the MONO switch ㉓ to decrease noise level.

**NOTE:** Monaural mode has been set initially. Push the MONO switch ㉓ when a stereo broadcast is being received.

**Local/Distance Switch Operation**

You may select local or distance mode during SEEK tuning. When it is in the local mode (Distance (DX) indicator ㉑ is off), it allows you to tune in strong signal stations only (stations C, F, H and L as shown below). When it is in the distance mode (Distance (DX) indicator is on), weak and strong signal stations (stations from A through M) will be tuned in.

Once a station is tuned in by SEEK in local mode, the mode will automatically switch to distance mode for optimum reception.



**NOTE:** DX (Local/Distance) Switch ㉖ functions only in SEEK tuning.

**Traffic Information Receiving (7179M model only)**

This model is equipped with traffic information receiving apparatus to be used in West Germany where the traffic information is broadcast in FM. The following is how to use this unit to receive traffic information broadcasting.

1. Select FM position.
2. Depress the SDK switch and tune to a station. If the station is a traffic information station, the SK indicator will glow and show the reception of a broadcast from a traffic information station.
   NOTE: SK Indicator
   When SK signal is received irrespective of the SDK position, the SK indicator will illuminate.
3. In the SDK mode, stations other than traffic information stations are muted and cut out. Therefore, it is easy to select a traffic information station.
4. As the signal of the tuned traffic information station becomes weak, the SK indicator will extinguish, then after the lapse of 30 seconds, a rhythmical alarm will sound to urge retuning to another stronger station. If the reception of further traffic information is required, tune in the desired traffic information station. When received, the alarm will stop and the SK indicator illuminates. Since the alarm will continue if no signals from any other traffic stations can be received, release SDK switch for to stop the alarm and receive normal broadcasting.
5. When the unit is playing a cassette tape with the SDK switch pushed in and tuned to a traffic information station, the tape play is interrupted and changed to FM radio if the pre-tuned station begins a traffic information message. When the message is over, the unit reverts to tape play automatically.
6. Even if the VOLUME control is set to the minimum position, the volume of the traffic information will be automatically adjusted to proper level. After the message, the sound volume returns to the previously adjusted level.
7. If traffic information reception is no longer necessary, release SDK switch for normal radio reception.

# Disassembly Instructions

## 1. Removal of Nosepiece

(1) After removals of bracket handle, top cover and bottom cover, remove two control knobs (Volume, Balance) and two slide knobs as shown in Figure 1.

(2) Remove two screws marked "O" and two hooks (A) as shown in Figures 1 and 2.

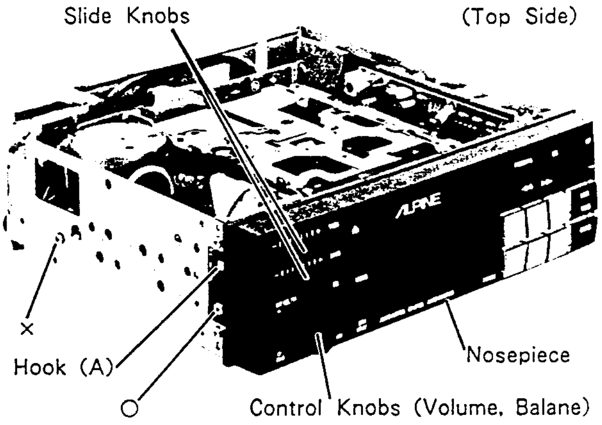

Slide Knobs
(Top Side)
×
Hook (A)
○
Nosepiece
Control Knobs (Volume, Balane)

Figure 1

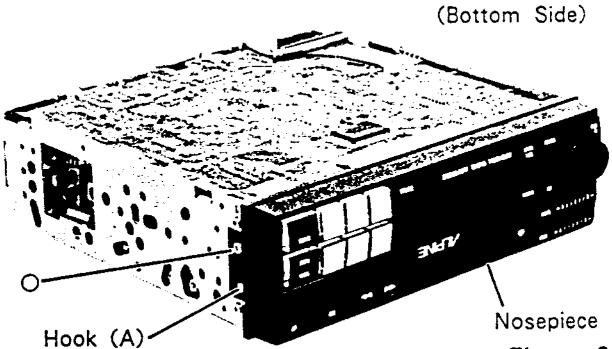

(Bottom Side)
○
Hook (A)
Nosepiece

Figure 2

## 2. Removal of Cassette Deck

(1) After removal of nosepiece, remove four screws marked "×" as shown in Figures 1 and 3.

(2) Disconnect one connector from the cassette deck.

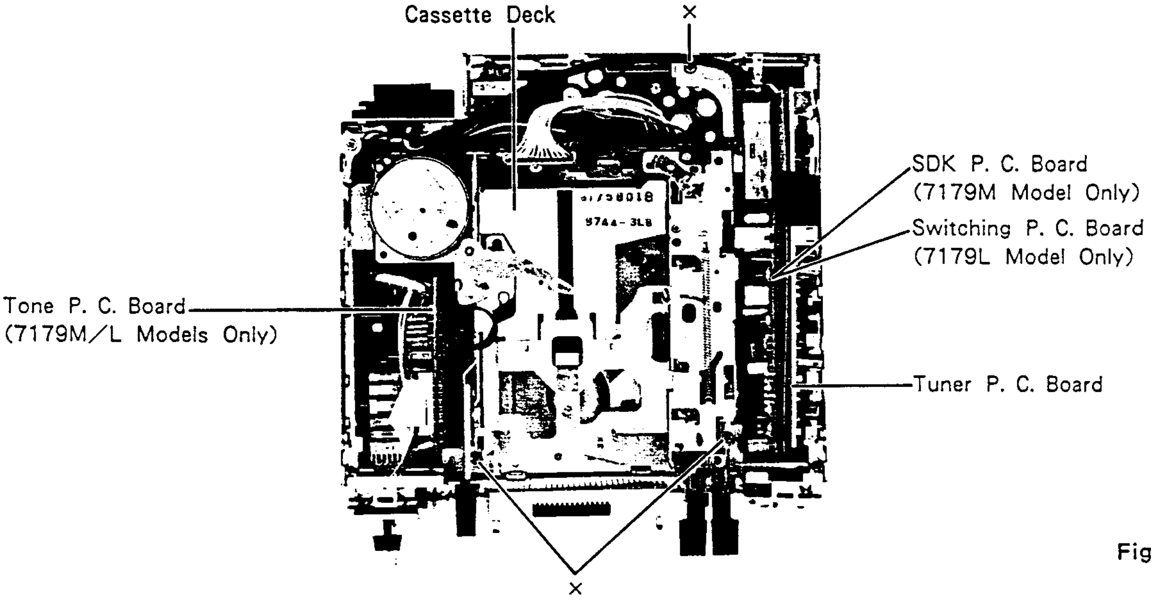

Cassette Deck
×
SDK P. C. Board
(7179M Model Only)
Switching P. C. Board
(7179L Model Only)
Tone P. C. Board
(7179M/L Models Only)
Tuner P. C. Board
×

Figure 3

## 3. Removal of Display P. C. Board

(1) After removal of cassette deck, remove two screws marked "◇" as shown in Figure 4.

(2) Remove the solder (c) as shown in Figure 6.

(3) Disconnect one wire from the Display P. C. Board.

**Note** :Do not cut parallel wires from the Main P. C. Board by removing the solder (c).

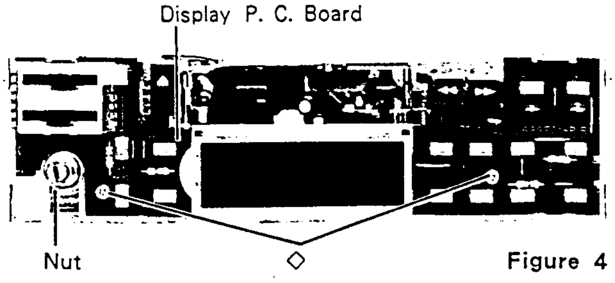

Display P. C. Board
Nut
◇

Figure 4

**4. Removal of Tuner P. C. Board**

(1) Remove the solder (b) as shown in Figure 6.

**5. Removal of Tone P. C. Board (7179M/L Models Only)**

(1) After removal of cassette deck, remove the solder (d) as shown in Figure 6.

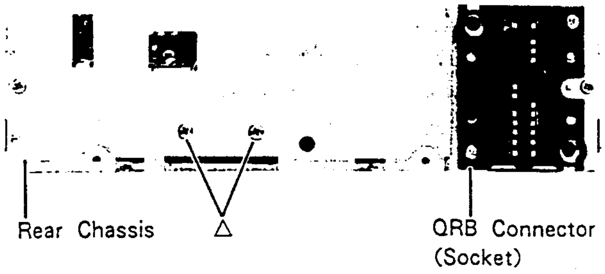
(2) Disconnect two connectors from the Tone P. C. Board.

**6. Removal of SDK P. C. Board (7179M Model Only)**

(1) Remove the solder (e) and (f) as shown in Figure 6.

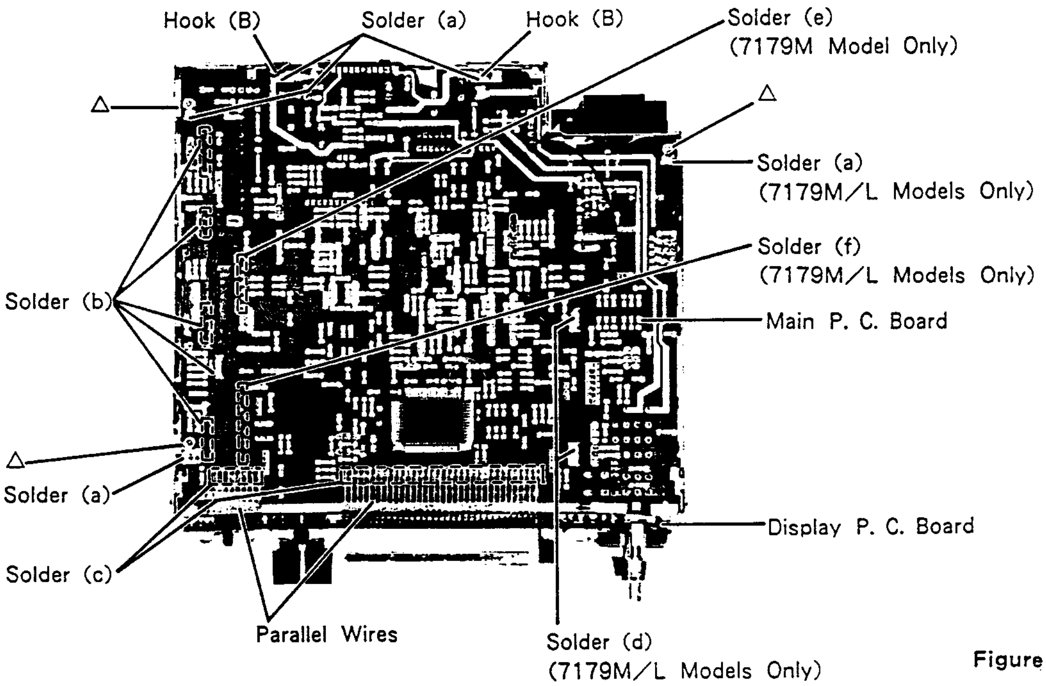
**7. Removal of Switching P. C. Board (7179L Model Only)**

(1) Remove the solder (f) as shown in Figure 6.



Rear Chassis
△
QRB Connector (Socket)

Figure 5



Hook (B)
Solder (a)
Hook (B)
Solder (e) (7179M Model Only)
△
△
Solder (a) (7179M/L Models Only)
Solder (f) (7179M/L Models Only)
Main P. C. Board
Solder (b)
△
Solder (a)
Solder (c)
Display P. C. Board
Parallel Wires
Solder (d) (7179M/L Models Only)

Figure 6

**8. Removal of Main P. C. Board**

(1)-1 After removals of Display P. C. Board and Tuner P. C. Board, remove the solder (a) as shown in Figure 6. (7179E Model Only)

(1)-2 After removals of Display P. C. Board, Tuner P. C. Board, Tone P. C. Board, SDK P. C. Board remove the solder (a) as shown in Figure 6. (7179M Model Only)

(1)-3 After removals of Display P. C. Board, Tuner P. C. Board, Tone P. C. Board and Switching P. C. Board remove the solder (a) as shown in Figure 6. (7179L Model Only)

(2) Remove a nut and two hooks (B) as shown in Figures 4 and 6.

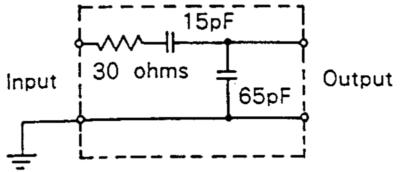
(3) Remove five screws marked "△" as shown in Figures 5 and 6.

(4) Disconnect all wires from the Main P. C. Board.

# Adjustment Procedures

## 1. AM SECTION

(1) Dummy Antenna Circuit


15pF
30 ohms
65pF
Input
Output

For 50 ohms AM Signal Generator **Figure 7**

(2) Connections

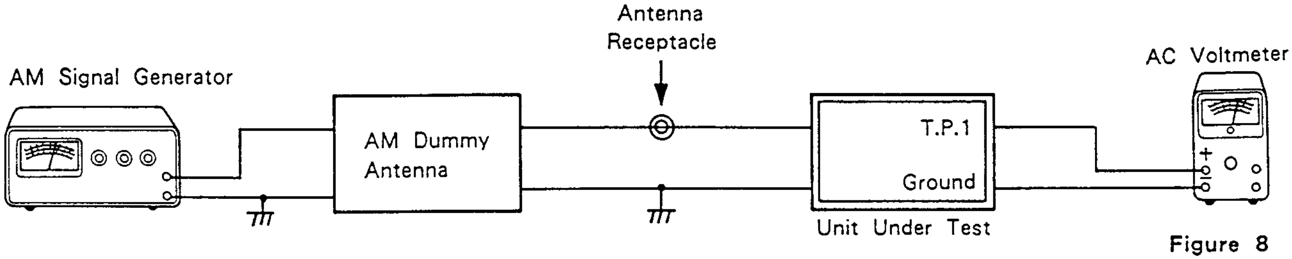

AM Signal Generator
AM Dummy Antenna
Antenna Receptacle
T.P.1
Ground
Unit Under Test
AC Voltmeter
+

**Figure 8**

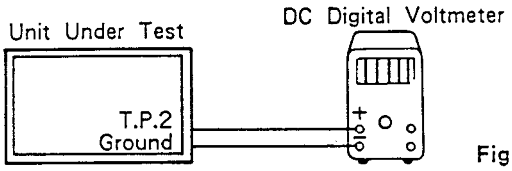

Unit Under Test
T.P.2
Ground
DC Digital Voltmeter
+

**Figure 9**

(3) Location of Adjustment Parts
See Adjustment Locations.

(4) Control Settings

| | | | |
|---|---|---|---|
| Power Switch | ON | Balance Control | Mechanical Center |
| FM/AM Switch | AM | Treble/Bass Control | Mechanical Center |
| Others | OFF | Fader Control | Front Position |

(5) Adjustment Procedures (7179E Model Only)

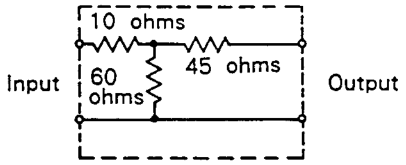
| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | Band Covering | Figure 9 | – | 1,602kHz | VC3 for 7.5±0.1V Output. |
| 2 | Band Covering | Figure 9 | – | 531kHz | T3 for 1.7±0.05V Output. |
| 3 | Band Covering | Figure 9 | – | – | Repeat Steps 1 and 2. |
| 4 | IF Adjustment | Figure 8 | 1,404kHz, 20dB μ | 1,404kHz | T4, 5 for Maximum Output. |
| 5 | Tracking | Figure 8 | 1,404kHZ, 20dB μ | 1,404kHz | VC1, 2 for Maximum Output. |
| 6 | Tracking | Figure 8 | 603kHz, 20dB μ | 603kHz | T6, 7 for Maximum Output. |
| 7 | Tracking | Figure 8 | – | – | Repeat Steps 5 and 6. |

(5) Adjustment Procedures (7179M/L Models Only)

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | Band Covering | Figure 9 | – | 152kHz | L8 for 2±0.1V Output. |
| 2 | IF Adjustment | Figure 8 | 999kHz, 20dB | 999kHz | T3 for Maximum Output. |
| 3 | Tracking | Figure 8 | 999kHz, 20dB | 999kHz | T1, 2 for Maximum Output. |

## 2. SDK Section (7179M Model Only)

(1) Dummy Antenna


10 ohms
Input
60 ohms
45 ohms
Output

For 50 ohms FM Signal Generator

**Figure 10**

(2) Connections

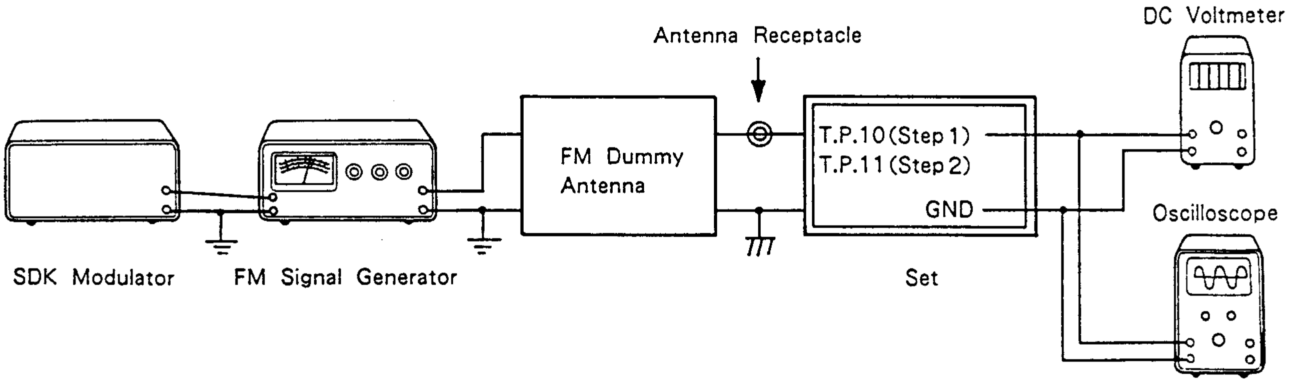

Antenna Receptacle
DC Voltmeter
FM Dummy Antenna
T.P.10 (Step 1)
T.P.11 (Step 2)
GND
Oscilloscope
SDK Modulator
FM Signal Generator
Set

**Figure 11**

(3) Control Settings

Power Switch ································ON
Band Select Switch ························SDK
Balance Control ················· Mechanical Center
Treble/Bass Controls ·········· Mechanical Center
Fader Control ······················ Front Position
Others ·········································OFF

(4) Adjustment Procedures

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | SK Adjustment | Figure 11 | 98.1MHz, 66dB μ<br>(SK, BK : ON DK : OFF) | 98.1MHz | L601 for Maximum Output of T.P.10. |
| 2 | DK Adjustment | Figure 11 | 98.1MHz, 66dB μ<br>(SK, BK, DK : ON) | 98.1MHz | VR601 for Maximum Output of T.P.11. |

## 3. FM SECTION

(1) Dummy Antenna Circuit

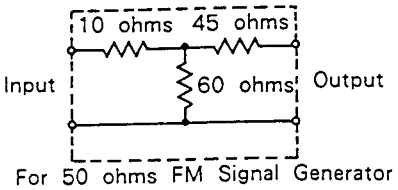

10 ohms
45 ohms
Input
60 ohms
Output
For 50 ohms FM Signal Generator

Figure 12

(2) Connections

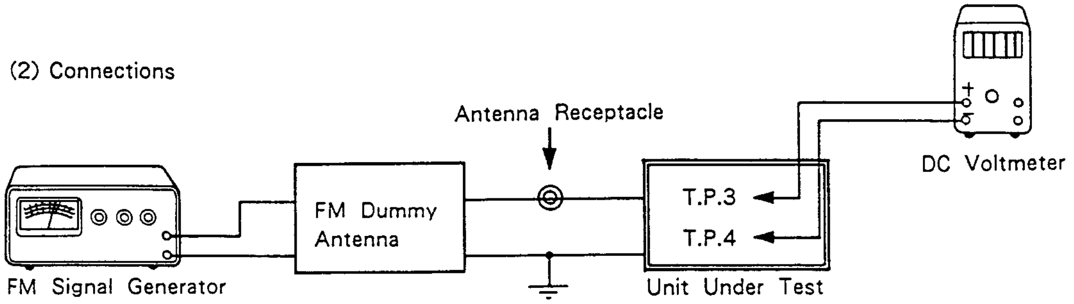

Antenna Receptacle
FM Dummy Antenna
T.P.3
T.P.4
DC Voltmeter
FM Signal Generator
Unit Under Test

Figure 13

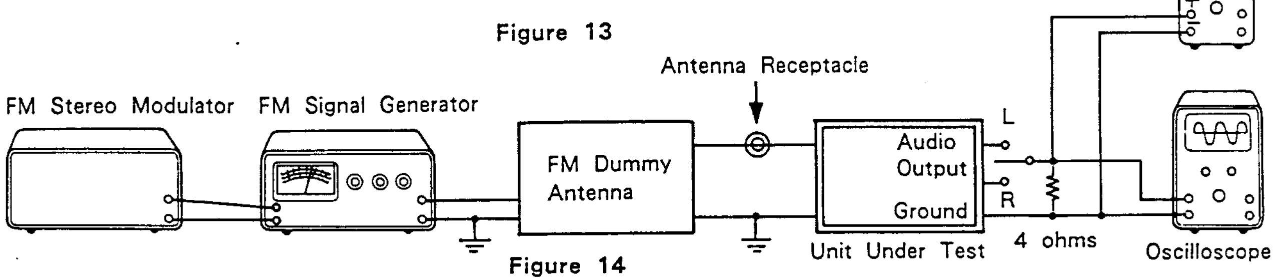

AC VTVM
Antenna Receptacle
FM Stereo Modulator
FM Signal Generator
FM Dummy Antenna
Audio Output
Ground
L
R
Unit Under Test
4 ohms
Oscilloscope

Figure 14

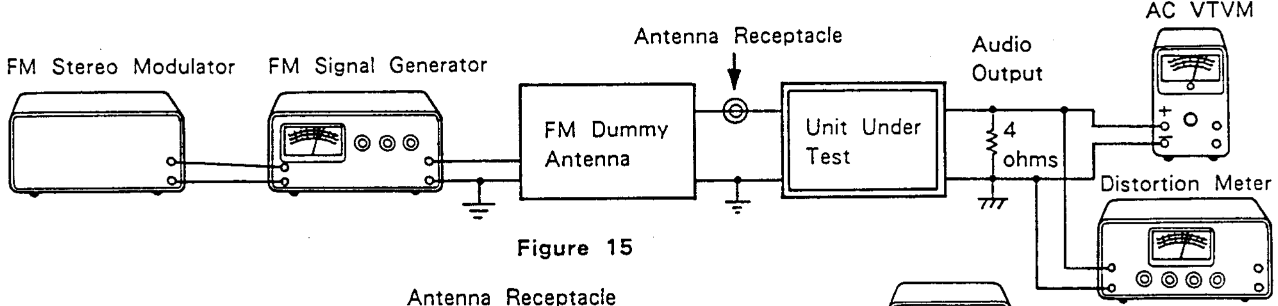

Antenna Receptacle
AC VTVM
Audio Output
FM Stereo Modulator
FM Signal Generator
FM Dummy Antenna
Unit Under Test
4 ohms
Distortion Meter

Figure 15

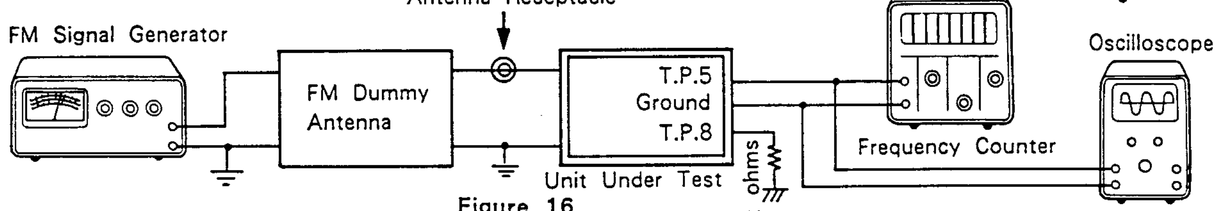

Antenna Receptacle
FM Signal Generator
FM Dummy Antenna
T.P.5
Ground
T.P.8
Unit Under Test
Frequency Counter
Oscilloscope
180k ohms

Figure 16

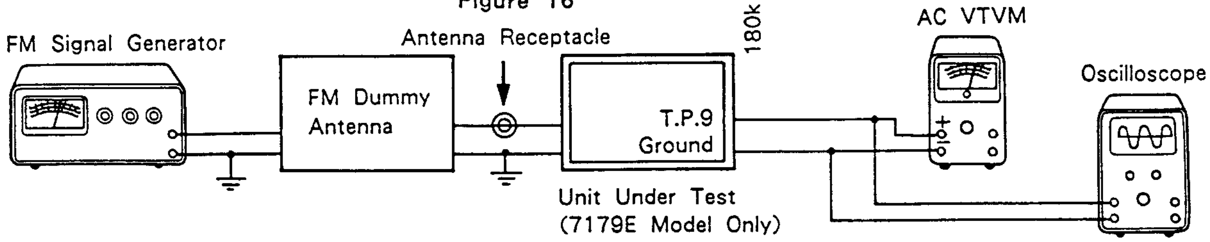

FM Signal Generator
Antenna Receptacle
AC VTVM
Oscilloscope
FM Dummy Antenna
T.P.9
Ground
Unit Under Test
(7179E Model Only)

Figure 17

(3) Location of Adjustment Parts
See Adjustment Locations.

(4) Control Settings

| | |
|---|---|
| Power Switch | ON |
| FM／AM Switch | FM |
| Others | OFF |
| Balance Control | Mechanical Center |
| Treble／Bass Control | Mechanical Center |
| Fader Control | Front Position |

(5) Alignment Procedures

| Step | Description | Connection | Signal Generator | Dial Control | Adjustment |
|---|---|---|---|---|---|
| 1 | IF Adjustment | Figure 13 | 98.1MHz 66dB μ (Mono Signal, No Modulation) | 98.1MHz | Confirm to receiving signal. T2 (7179E), T4 (7179M/L) for 0V±0.03V between T.P.3 and 4. |
| 2 | VCO Adjustment | Figure 16 | 98.1MHz 66dB μ (Mono Signal No Modulation) | 98.1MHz | VR3 for 19±0.2kHz curve at T.P.5. |
| 3 | Separation Adjustment | Figure 14 | 98.1MHz 66dB μ, 1000Hz R (L) Signal, Modulation | 98.1MHz | VR4 (7179E), VR5 (7179M/L) for min. at L (R) channel output. |
| 4 | FM Stereo Blend Adjustment | Figure 15 | 98.1MHz 66dB μ L Signal | 98.1MHz | VR203-1, 2 (7179E), VR302-1, 2 (7179M/L) (VOLUME) for 2V at Lch. output. |
| | | | 98.1MHz 46dB μ L Signal | 98.1MHz | VR1 (7179E), VR4 (7179M/L) for 8±2dB separation. |
| 5 | Seek Stop Adjustment | Figure 17 | 98.1MHz 20dB μ (Mono Signal, No Modulation) | 98.1MHz | Adjust VR2 for the waveform changing from Low to High. |
| 6 | Noise Level Adjustment | Figure 14 | 98.1MHz 66dB μ (Mod. 400Hz, Dev. 22.5kHz) | 98.1MHz | VR302-1, 2 (VOLUME) for 2V at Lch output. |
| | | | 98.1MHz −10dB μ (Mod. 400Hz, Dev. 22.5kHz) | 98.1MHz | VR1 for −25 to −35dB at Lch output. |

※Step 6 ····· 7179M/L Models Only.

## 4. TAPE SECTION

(1) Connection

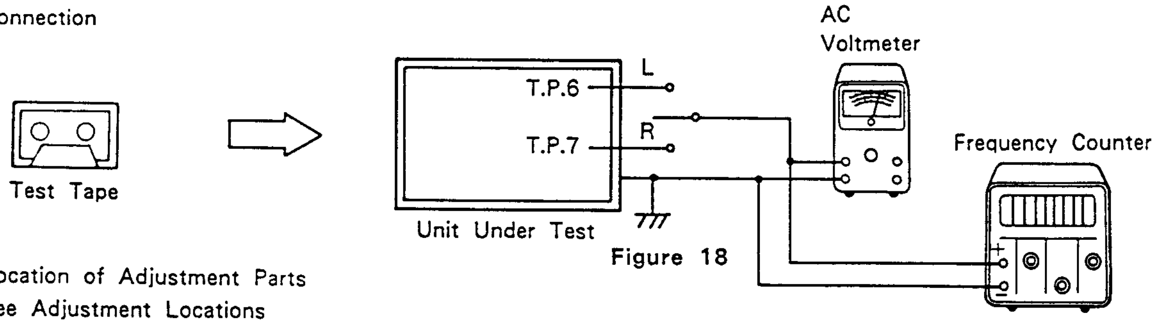


Figure 18

(2) Location of Adjustment Parts
See Adjustment Locations

(3) Control Settings
Power Switch ································ON
Fader Control ······················ Front Position
Balance Control ················· Mechanical Center
Treble/Bass Control ··········· Mechanical Center
Others Switch ······························OFF

(4) Adjustment Procedures

| Step | Description | Test Tape | Connection | Test Point | Adjustment Point | Adjustment |
|---|---|---|---|---|---|---|
| 1 | Head Azimuth Adjustment | MTT-114NB (14kHz) | Figure 18 | T.P.6, T.P.7 | Head Azimuth Adjustment Screw (Figure 19) | Adjust for max. and the same level output at normal and reverse positions. |
| 2 | Tape Speed Adjustment | MTT-111 (3kHz) | Figure 18 | T.P.6 or T.P.7 | Tape Speed Adjustment Volume (Figure 20) | 3,030−3,080Hz. |

# Adjustment Locations

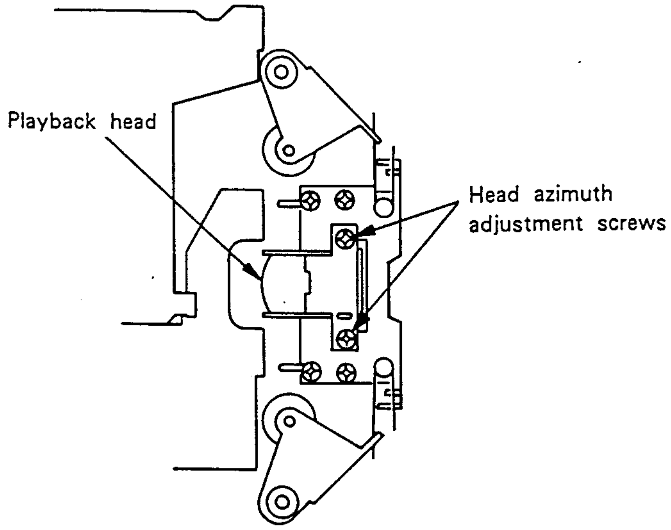

Playback head
Head azimuth adjustment screws

Figure 19

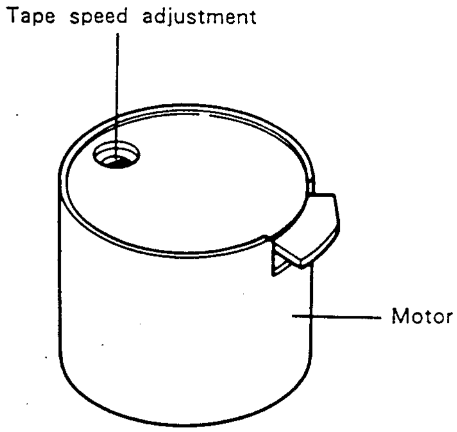
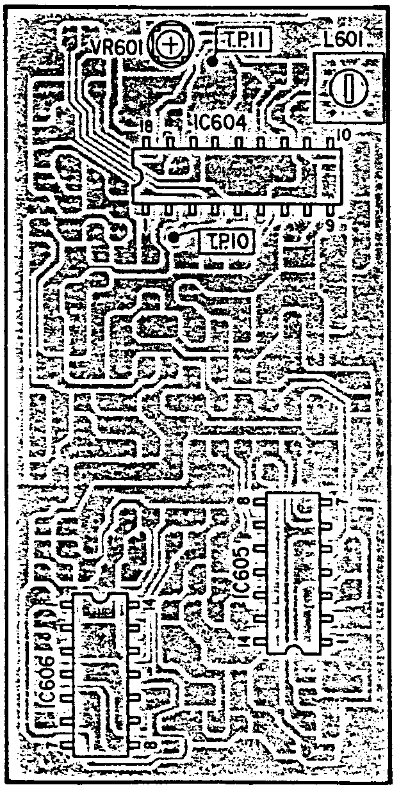
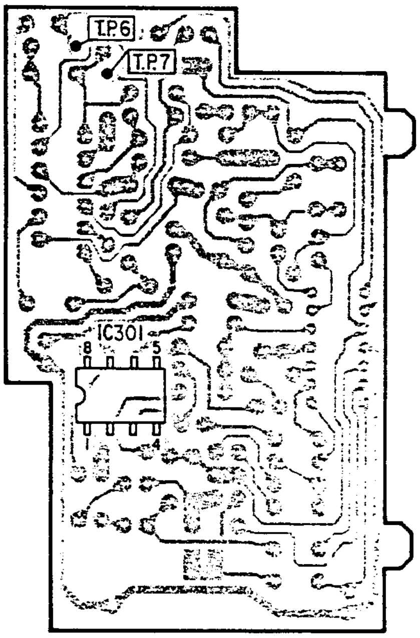

Tape speed adjustment
Motor

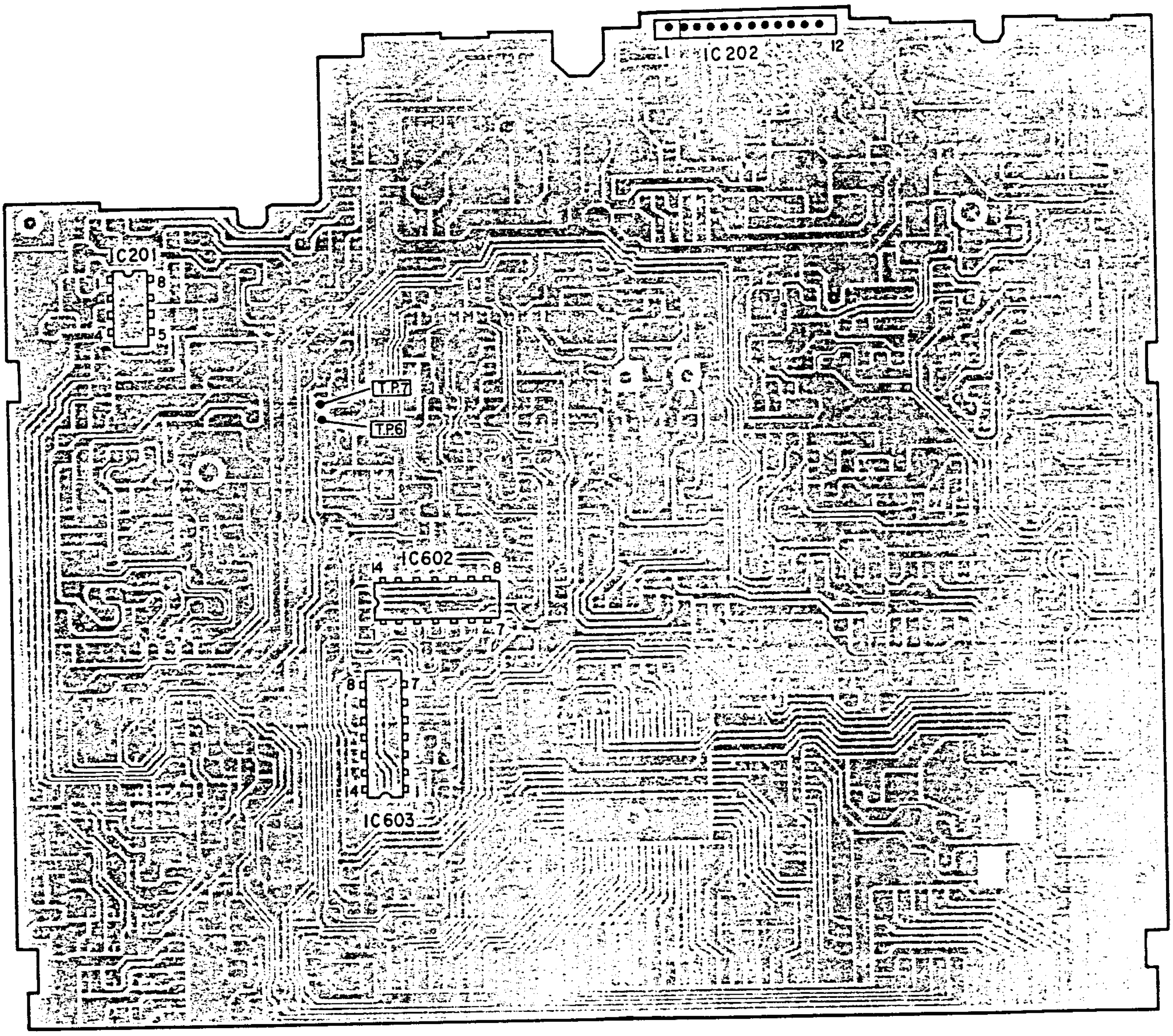
Figure 20


VR601
T.P.11
L601
IC604
18
10
1
9
T.P.10
IC605
IC606
8
14

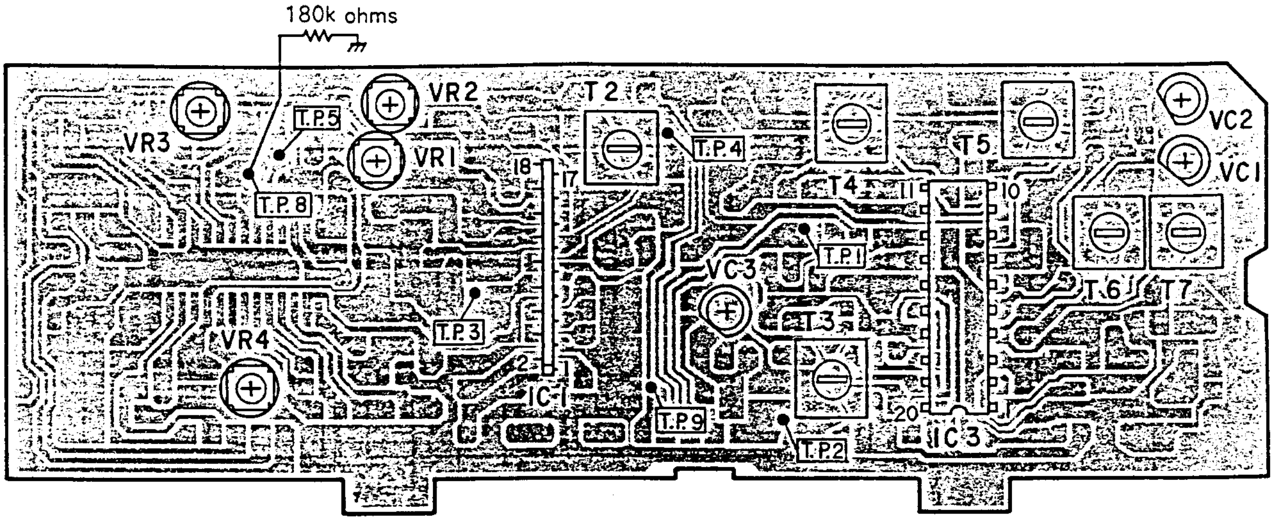
SDK P. C. Board (Top View)
(7179M Model Only)


T.P.6
T.P.7
IC301
8
5
1
4

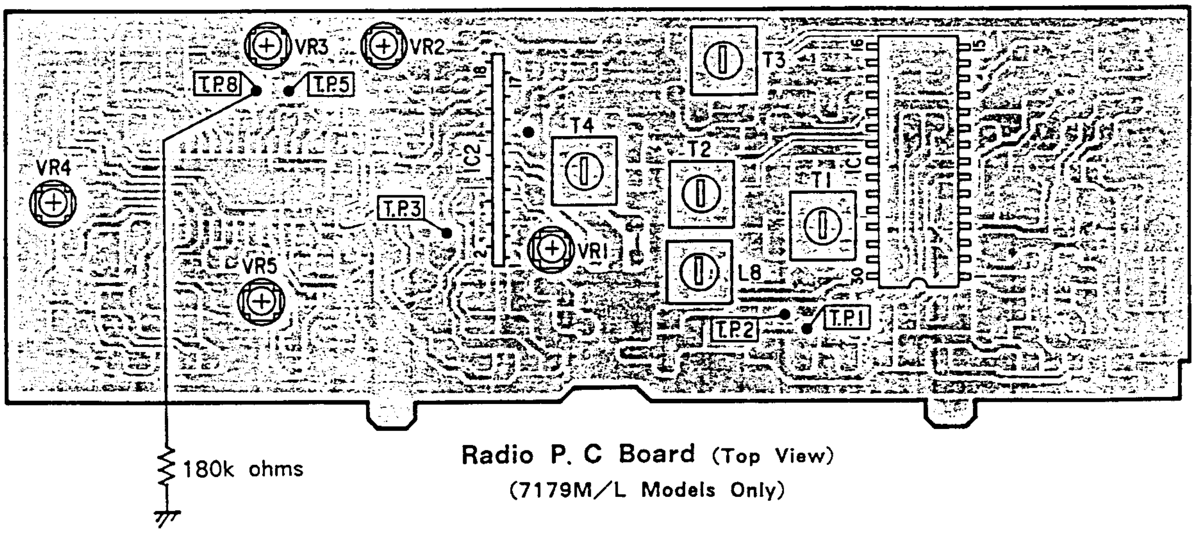
Tone P. C. Board (Top View)
(7179M/L Models Only)


IC202
1
12
IC201
8
4
5
T.P.7
T.P.6
IC602
14
8
7
IC603
8
7
14

Main P. C. Board (Top View)
(7179E Model Only)


180k ohms
VR3
VR2
T.P.5
VR1
T2
T.P.4
T5
VC2
VC1
T.P.8
18
17
T4
11
10
T.P.1
VC3
T.P.3
T6
T7
VR4
T3
2
IC1
T.P.9
20
IC3
T.P.2

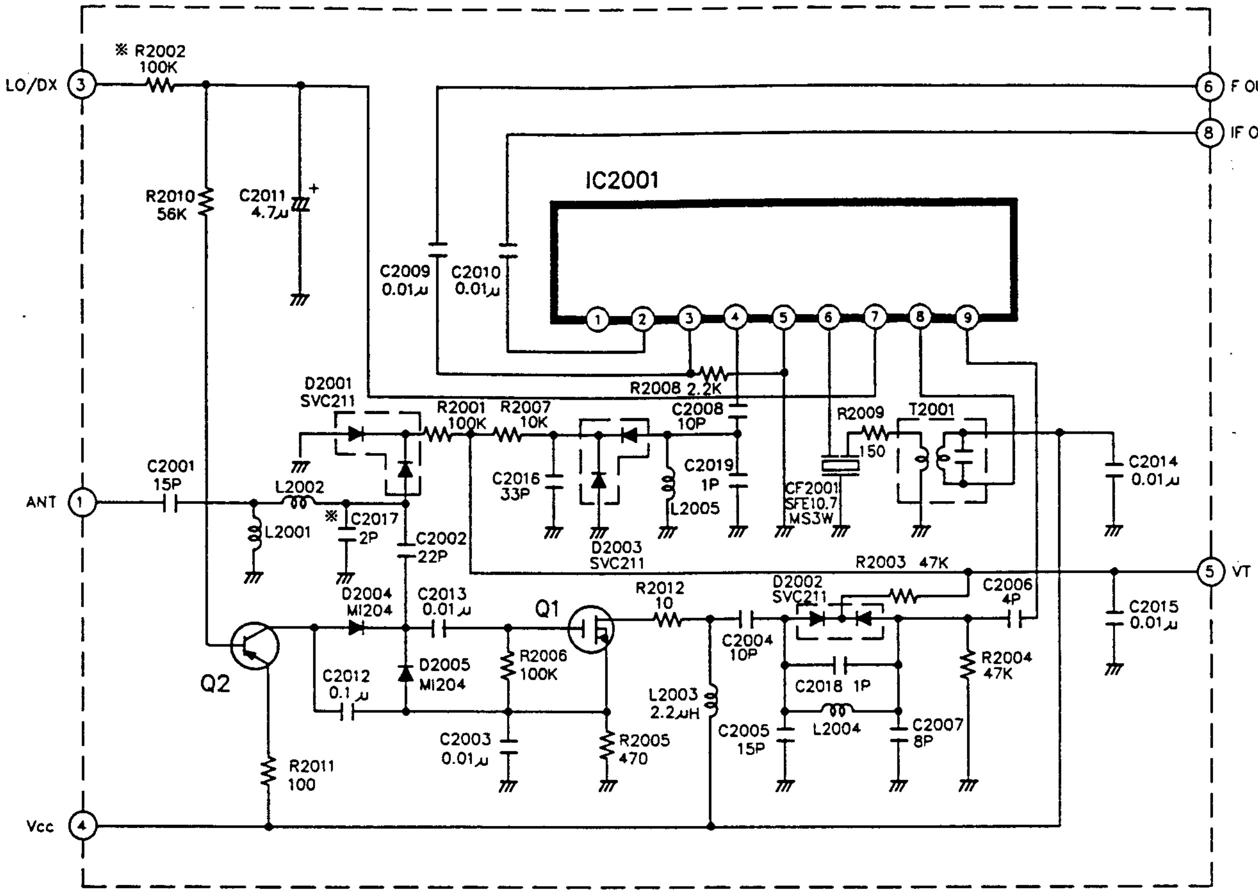
Tuner P. C. Board (Top View)
(7179E Model Only)


VR3
VR2
T.P.8
T.P.5
T3
18
17
16
15
T4
VR4
IC2
T2
T1
IC1
T.P.3
VR1
2
VR5
L8
30
T.P.2
T.P.1
180k ohms

Radio P. C Board (Top View)
(7179M/L Models Only)

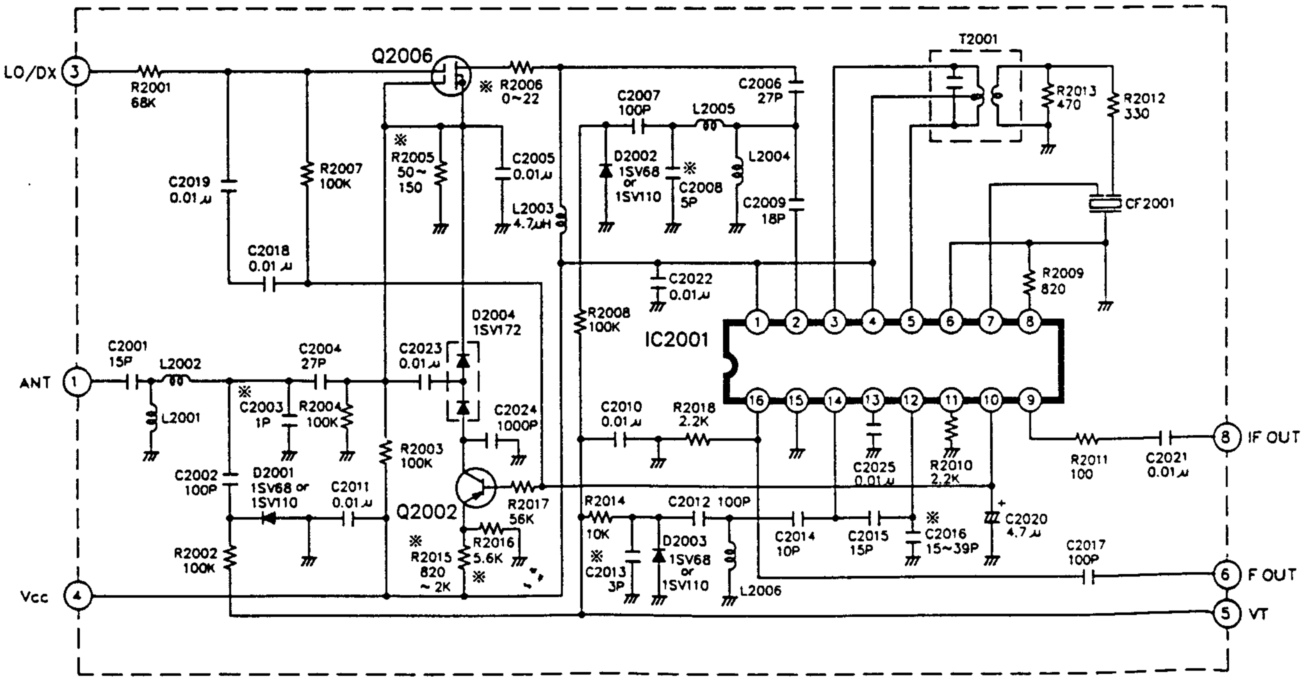
# FM Tuner Schematic Diagram

## (7179M/L Models Only)


LO/DX ③
※ R2002 100K
R2010 56K
C2011 4.7μ
C2009 0.01μ
C2010 0.01μ
IC2001
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
⑥ F OUT
⑧ IF OUT
R2008 2.2K
D2001 SVC211
R2001 100K
R2007 10K
C2008 10P
R2009 150
T2001
C2001 15P
ANT ①
L2002
※ C2017 2P
L2001
C2002 22P
C2016 33P
D2003 SVC211
C2019 1P
L2005
CF2001 SFE10.7 MS3W
C2014 0.01μ
R2003 47K
⑤ VT
D2004 MI204
C2013 0.01μ
Q1
R2012 10
D2002 SVC211
C2006 4P
C2015 0.01μ
Q2
C2012 0.1μ
D2005 MI204
R2006 100K
C2004 10P
R2004 47K
L2003 2.2μH
C2018 1P
L2004
C2005 15P
C2007 8P
C2003 0.01μ
R2005 470
R2011 100
Vcc ④

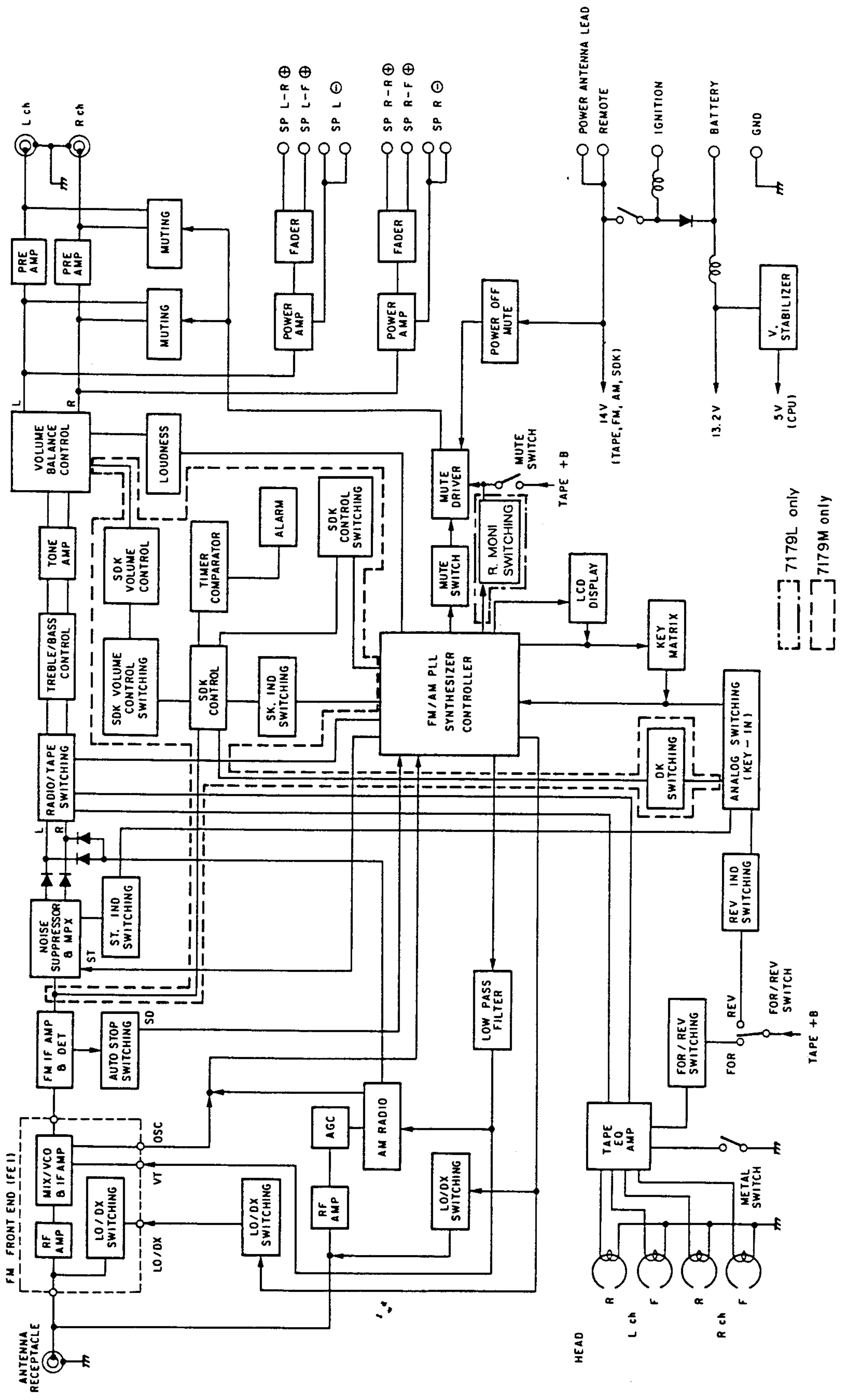
NOTE : PARTS MARKED ＊ ARE FOR ADJUSTMENT.

## (7179E Model Only)

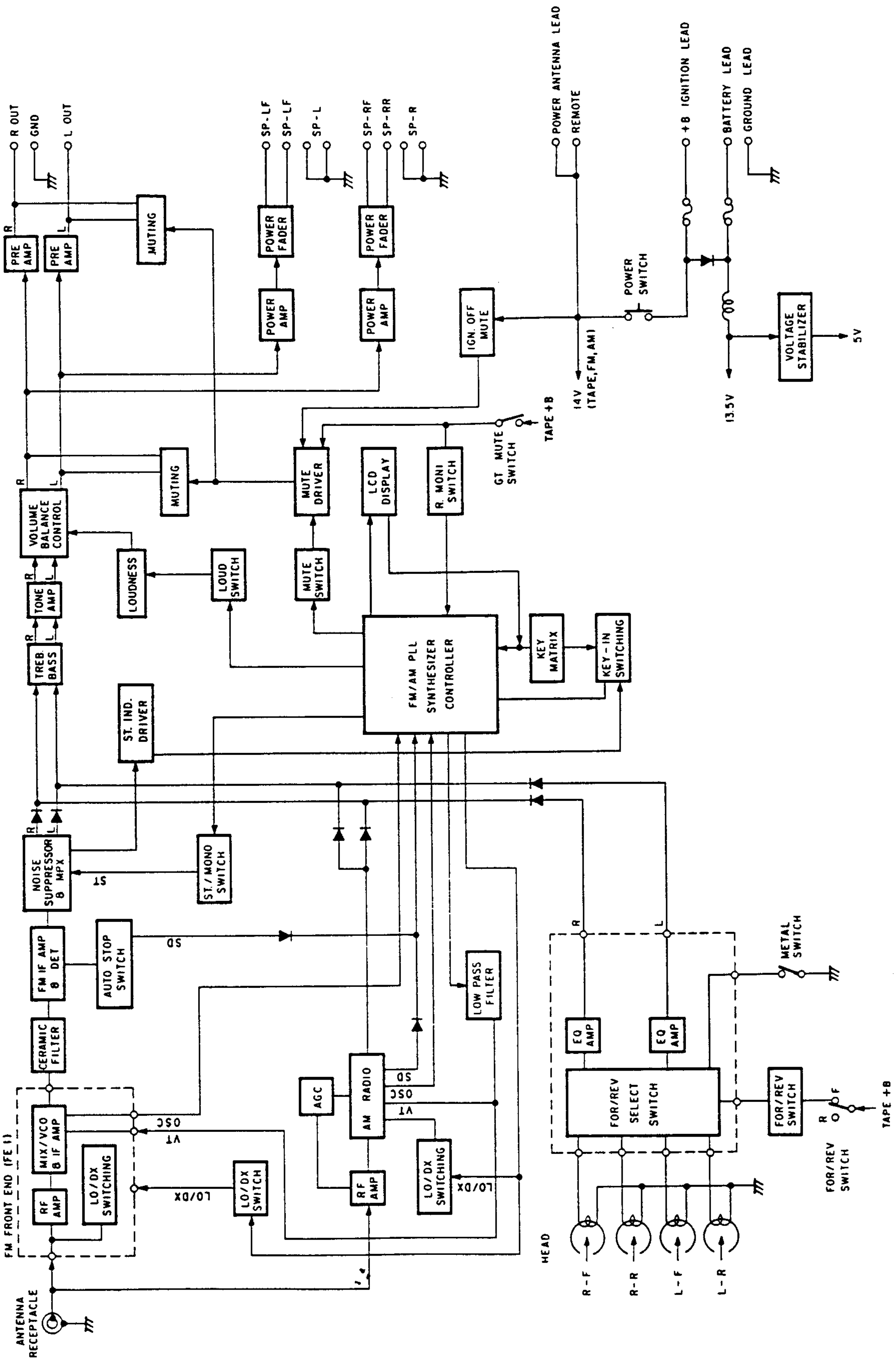

LO/DX ③
R2001 68K
Q2006
※ R2006 0~22
C2006 27P
T2001
R2013 470
R2012 330
C2007 100P
L2005
C2019 0.01μ
R2007 100K
※ R2005 50~150
C2005 0.01μ
D2002 1SV68 or 1SV110
※ C2008 5P
L2004
C2009 18P
CF2001
L2003 4.7μH
C2018 0.01μ
C2022 0.01μ
R2009 820
R2008 100K
IC2001
① ② ③ ④ ⑤ ⑥ ⑦ ⑧
⑯ ⑮ ⑭ ⑬ ⑫ ⑪ ⑩ ⑨
D2004 1SV172
C2001 15P
L2002
C2004 27P
C2023 0.01μ
ANT ①
※ C2003 1P
R2004 100K
L2001
C2024 1000P
C2010 0.01μ
R2018 2.2K
R2003 100K
⑧ IF OUT
R2011 100
C2021 0.01μ
C2002 100P
D2001 1SV68 or 1SV110
C2011 0.01μ
Q2002
R2017 56K
R2014 10K
C2012 100P
C2025 0.01μ
R2010 2.2K
C2020 4.7μ
※ R2015 820 ~2K
R2016 5.6K
※
※ C2013 3P
D2003 1SV68 or 1SV110
L2006
C2014 10P
C2015 15P
※ C2016 15~39P
C2017 100P
R2002 100K
Vcc ④
⑥ F OUT
⑤ VT

NOTE: PARTS MARKED ＊ ARE FOR ADJUSTMENT.

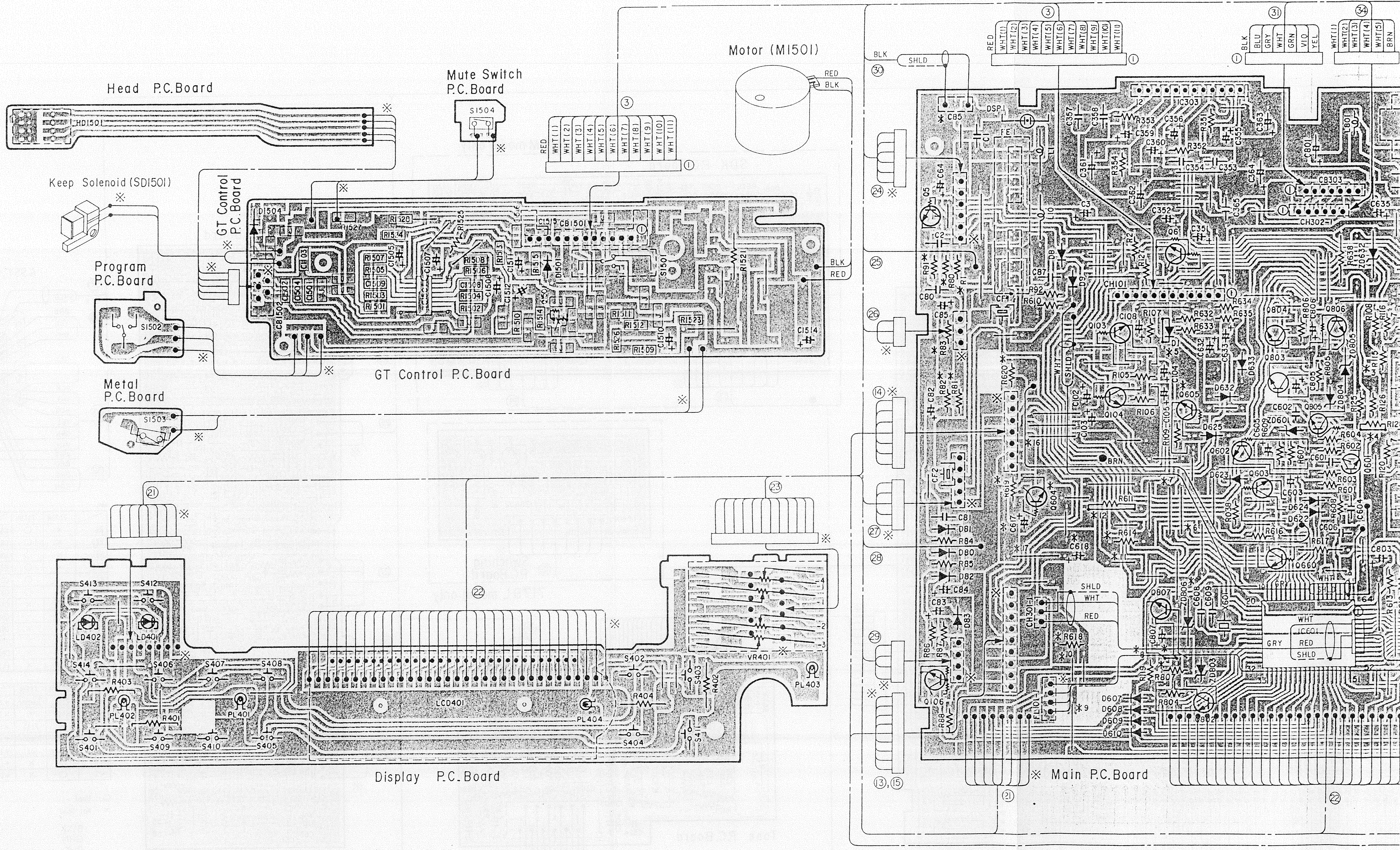
# Block Diagram (7179M/L Models Only)

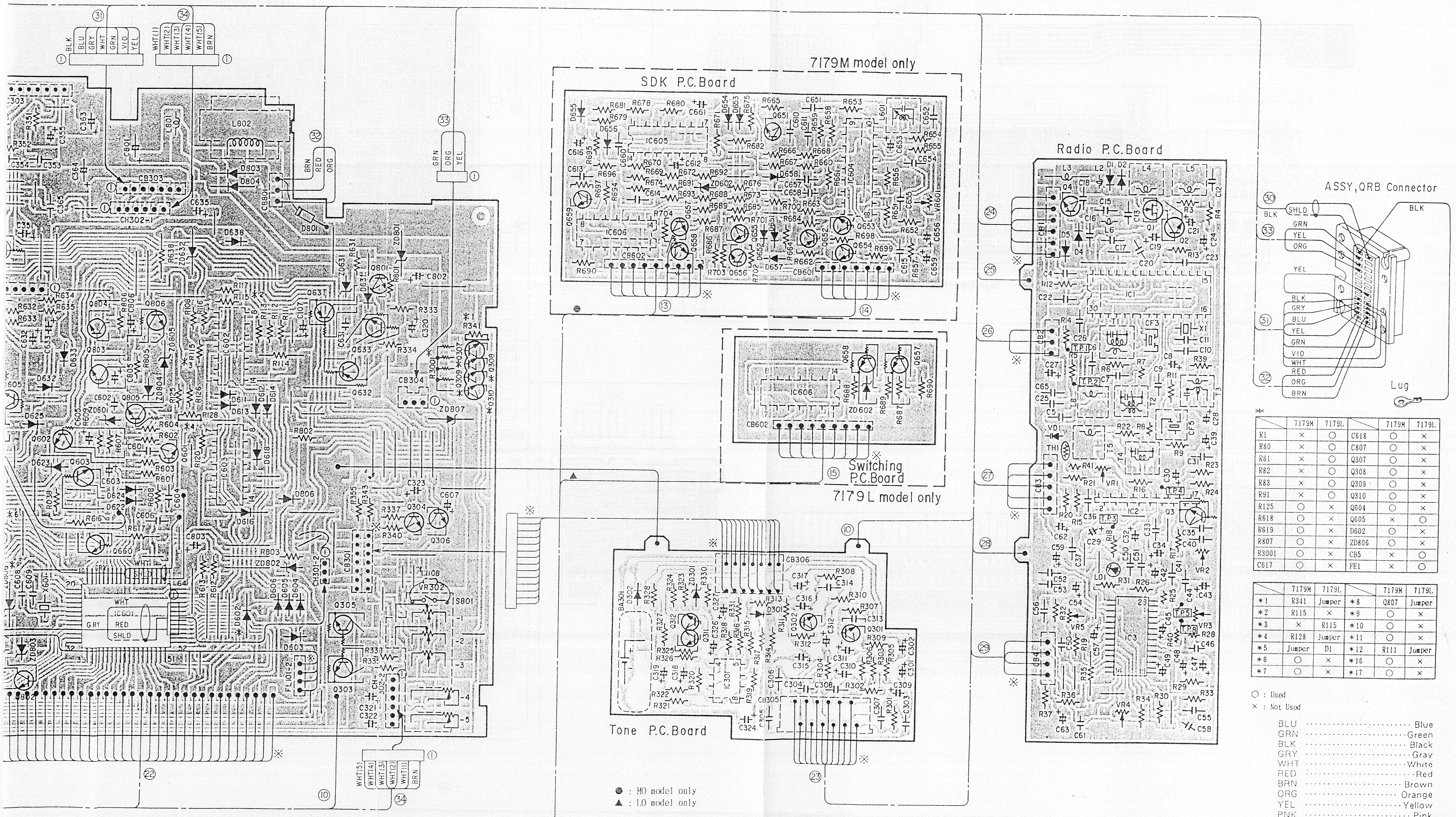

L ch
R ch
PRE AMP
PRE AMP
MUTING
MUTING
SP L-R ⊕
SP L-F ⊕
SP L ⊖
SP R-R ⊕
SP R-F ⊕
SP R ⊖
FADER
FADER
POWER AMP
POWER AMP
POWER ANTENNA LEAD
REMOTE
IGNITION
BATTERY
GND
POWER OFF MUTE
V. STABILIZER
14V (TAPE, FM, AM, SDK)
13.2V
5V (CPU)
L
R
VOLUME BALANCE CONTROL
LOUDNESS
MUTE DRIVER
MUTE SWITCH
TAPE +B
TONE AMP
SDK VOLUME CONTROL
TIMER COMPARATOR
ALARM
SDK CONTROL SWITCHING
MUTE SWITCH
R. MONI SWITCHING
LCD DISPLAY
7179L only
7179M only
KEY MATRIX
TREBLE/BASS CONTROL
SDK VOLUME CONTROL SWITCHING
SDK CONTROL
SK. IND SWITCHING
FM/AM PLL SYNTHESIZER CONTROLLER
ANALOG SWITCHING (KEY-IN)
DK SWITCHING
RADIO/TAPE SWITCHING
L
R
REV IND SWITCHING
NOISE SUPPRESSOR & MPX
ST. IND SWITCHING
ST
LOW PASS FILTER
FM IF AMP & DET
AUTO STOP SWITCHING
SD
FOR/REV SWITCHING
REV
FOR
FOR/REV SWITCH
TAPE +B
FM FRONT END (FE1)
MIX/VCO & IF AMP
RF AMP
LO/DX SWITCHING
OSC
VT
LO/DX
AGC
AM RADIO
RF AMP
LO/DX SWITCHING
LO/DX SWITCHING
TAPE EQ AMP
METAL SWITCH
ANTENNA RECEPTACLE
HEAD
R
F
L ch
R
F
R ch

# Block Diagram (7179E Model Only)


R OUT
GND
L OUT
SP-LF
SP-LF
SP-L
SP-RF
SP-RR
SP-R
POWER ANTENNA LEAD
REMOTE
+B IGNITION LEAD
BATTERY LEAD
GROUND LEAD
PRE AMP
PRE AMP
R
L
MUTING
POWER FADER
POWER FADER
POWER AMP
POWER AMP
IGN. OFF MUTE
POWER SWITCH
VOLTAGE STABILIZER
5V
14V (TAPE, FM, AM)
13.5V
TAPE +B
GT MUTE SWITCH
MUTING
MUTE DRIVER
LCD DISPLAY
R. MONI SWITCH
VOLUME BALANCE CONTROL
LOUDNESS
LOUD SWITCH
MUTE SWITCH
TONE AMP
TREB. BASS
FM/AM PLL SYNTHESIZER CONTROLLER
KEY MATRIX
KEY-IN SWITCHING
ST. IND. DRIVER
NOISE SUPPRESSOR & MPX
ST
ST./MONO SWITCH
FM IF AMP & DET
AUTO STOP SWITCH
SD
CERAMIC FILTER
LOW PASS FILTER
METAL SWITCH
EQ AMP
EQ AMP
FOR/REV SELECT SWITCH
FOR/REV SWITCH
F
R
TAPE +B
FOR/REV SWITCH
FM FRONT END (FE1)
MIX/VCO & IF AMP
RF AMP
LO/DX SWITCHING
OSC
VT
LO/DX
LO/DX SWITCH
AGC
AM RADIO
SD
OSC
VT
RF AMP
LO/DX SWITCHING
LO/DX
HEAD
R-F
R-R
L-F
L-R
ANTENNA RECEPTACLE

# Parts Layout on P.C. Boards and Wiring Diagram ●7179M/L Models Only


Head P.C.Board
HD1501
Mute Switch P.C.Board
S1504
Keep Solenoid (SD1501)
GT Control P.C.Board
Program P.C.Board
S1502
Metal P.C.Board
S1503
Motor (M1501)
RED
BLK
RED
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
WHT(6)
WHT(7)
WHT(8)
WHT(9)
WHT(10)
WHT(11)
③
①
GT Control P.C.Board
S1501
CB1501
Display P.C.Board
LCD401
S401
S402
S403
S404
S405
S406
S407
S408
S409
S410
S411
S412
S413
S414
LD401
LD402
PL401
PL402
PL403
PL404
VR401
R401
R402
R403
R404
㉑
㉒
㉓
※
Main P.C.Board
BLK
SHLD
㉚
㉛
㉞
BLK
BLU
GRY
WHT
GRN
VIO
YEL
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
BRN
㉔
㉕
㉖
⑭
㉗
㉘
㉙
⑬,⑮
CH101
CH301
CH302
CB303
DSP1
SHLD
WHT
RED
GRY
IC601
BRN


7179M model only
SDK P.C.Board
Radio P.C.Board
ASSY, QRB Connector
Switching P.C.Board
7179L model only
Tone P.C.Board
Lug
BLK
BLU
GRY
WHT
GRN
VIO
YEL
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
BRN
RED
ORG
SHLD
IC601
IC605
IC606
IC1
IC2
IC3
CB303
CB801
CB304
CB301
CB306
CB602
CB601
CB1
CB2
CB3
CB4
CH302-1
CH302-2
CH301-2
FL101-2
VR302
S801
VR1
VR2
VR3
VR4
VR5
T.P.1
T.P.2
T.P.3
T.P.4
T.P.5
T.P.6

● : MO model only

▲ : LO model only

*

|  | 7179M | 7179L |  | 7179M | 7179L |
|---|---|---|---|---|---|
| R1 | × | ○ | C618 | ○ | × |
| R80 | × | ○ | C807 | ○ | × |
| R81 | × | ○ | Q307 | ○ | × |
| R82 | × | ○ | Q308 | ○ | × |
| R83 | × | ○ | Q309 | ○ | × |
| R91 | × | ○ | Q310 | ○ | × |
| R125 | ○ | × | Q604 | ○ | × |
| R618 | ○ | × | Q605 | × | ○ |
| R619 | ○ | × | D602 | ○ | × |
| R807 | ○ | × | ZD806 | ○ | × |
| R3001 | ○ | × | CB5 | × | ○ |
| C617 | ○ | × | FE1 | × | ○ |

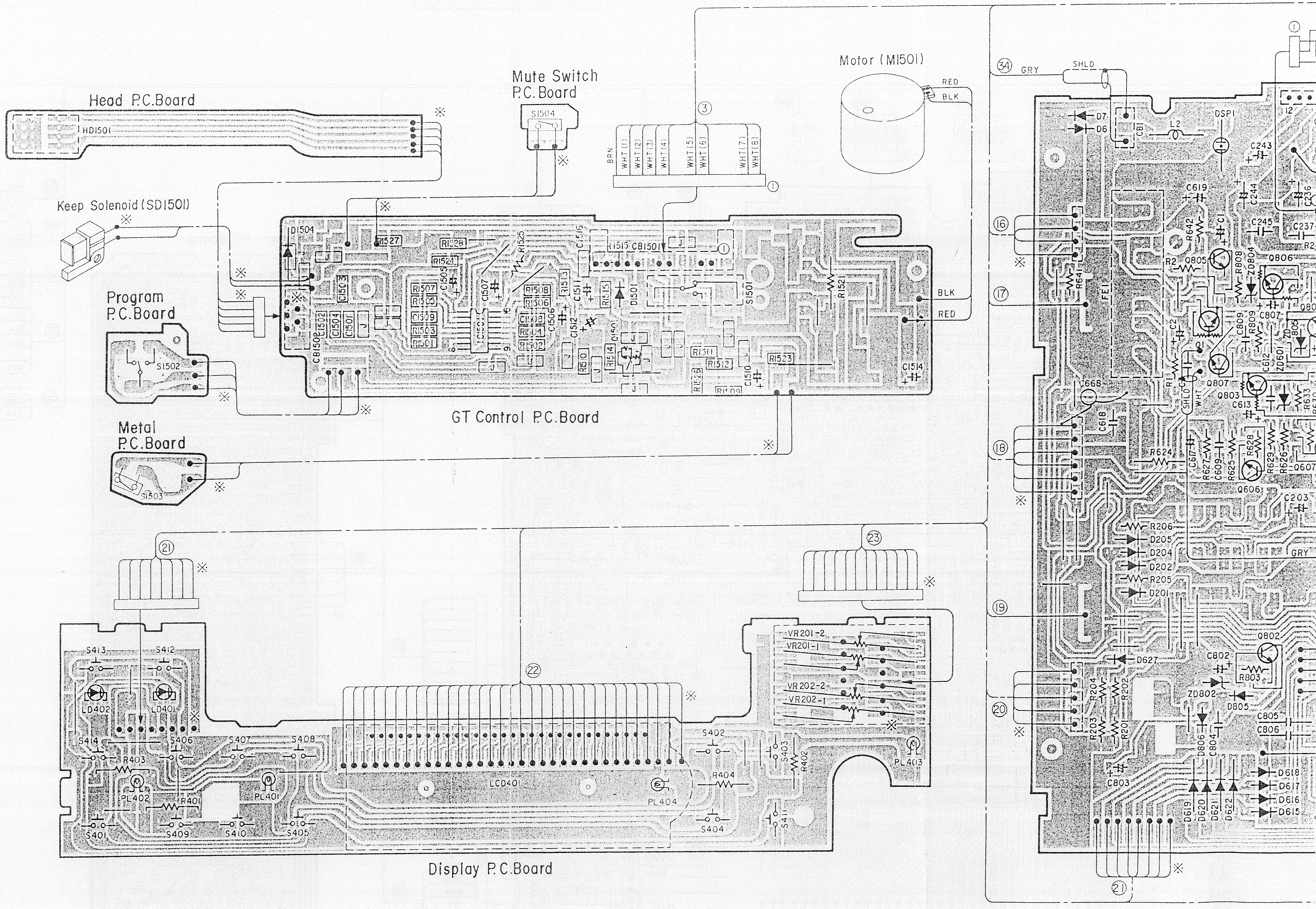
|  | 7179M | 7179L |  | 7179M | 7179L |
|---|---|---|---|---|---|
| *1 | R341 | Jumper | *8 | Q807 | Jumper |
| *2 | R115 | × | *9 | ○ | × |
| *3 | × | R115 | *10 | ○ | × |
| *4 | R128 | Jumper | *11 | ○ | × |
| *5 | Jumper | D1 | *12 | R111 | Jumper |
| *6 | ○ | × | *16 | ○ | × |
| *7 | ○ | × | *17 | ○ | × |

○ : Used

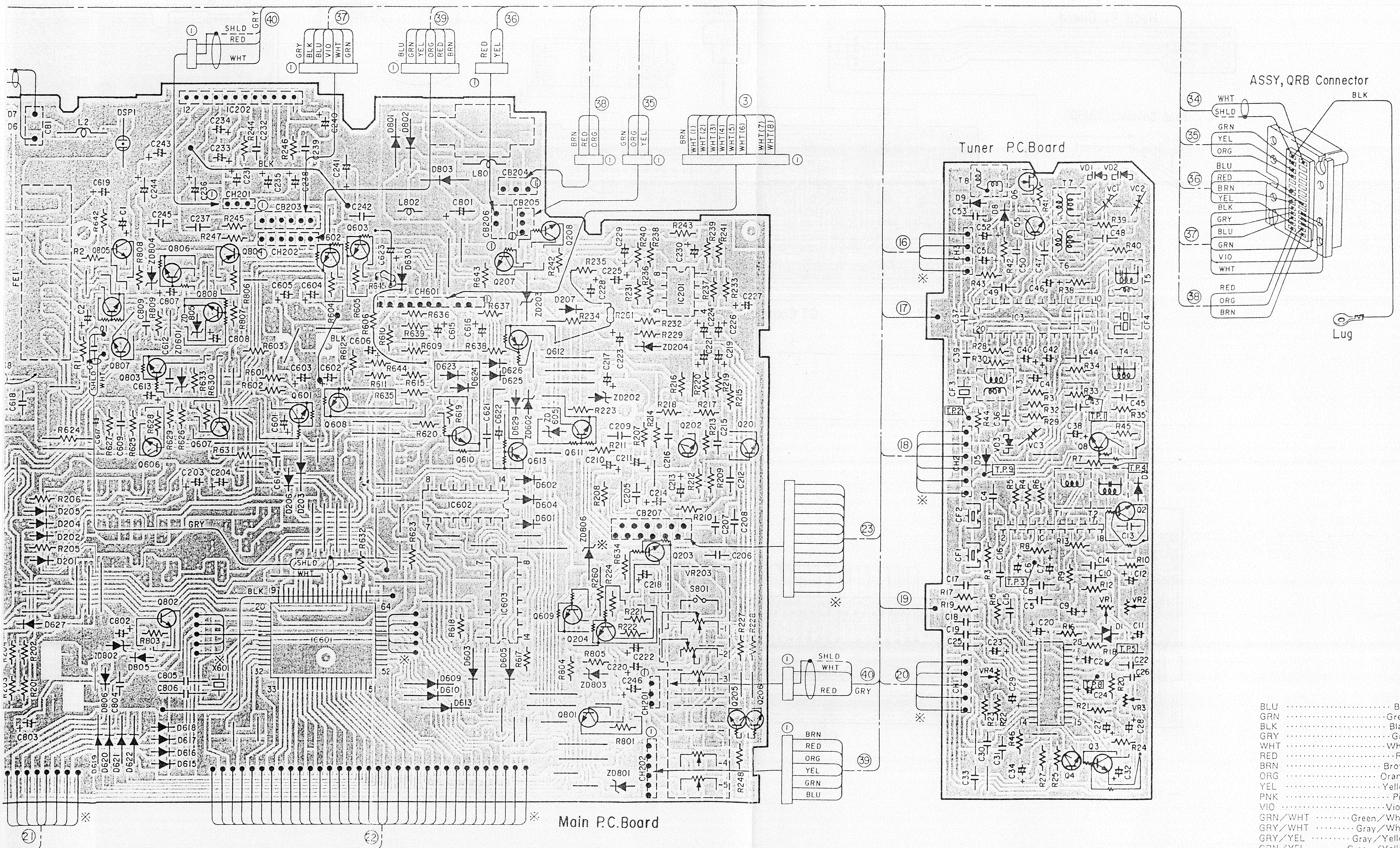
× : Not Used

| | |
|---|---|
| BLU | Blue |
| GRN | Green |
| BLK | Black |
| GRY | Gray |
| WHT | White |
| RED | Red |
| BRN | Brown |
| ORG | Orange |
| YEL | Yellow |
| PNK | Pink |
| VIO | Violet |
| GRN／WHT | Green／White |
| GRY／WHT | Gray／White |
| GRY／YEL | Gray／Yellow |
| GRN／YEL | Green／Yellow |

## Parts Layout on P.C. Boards and Wiring Diagram ●7179E Model Only



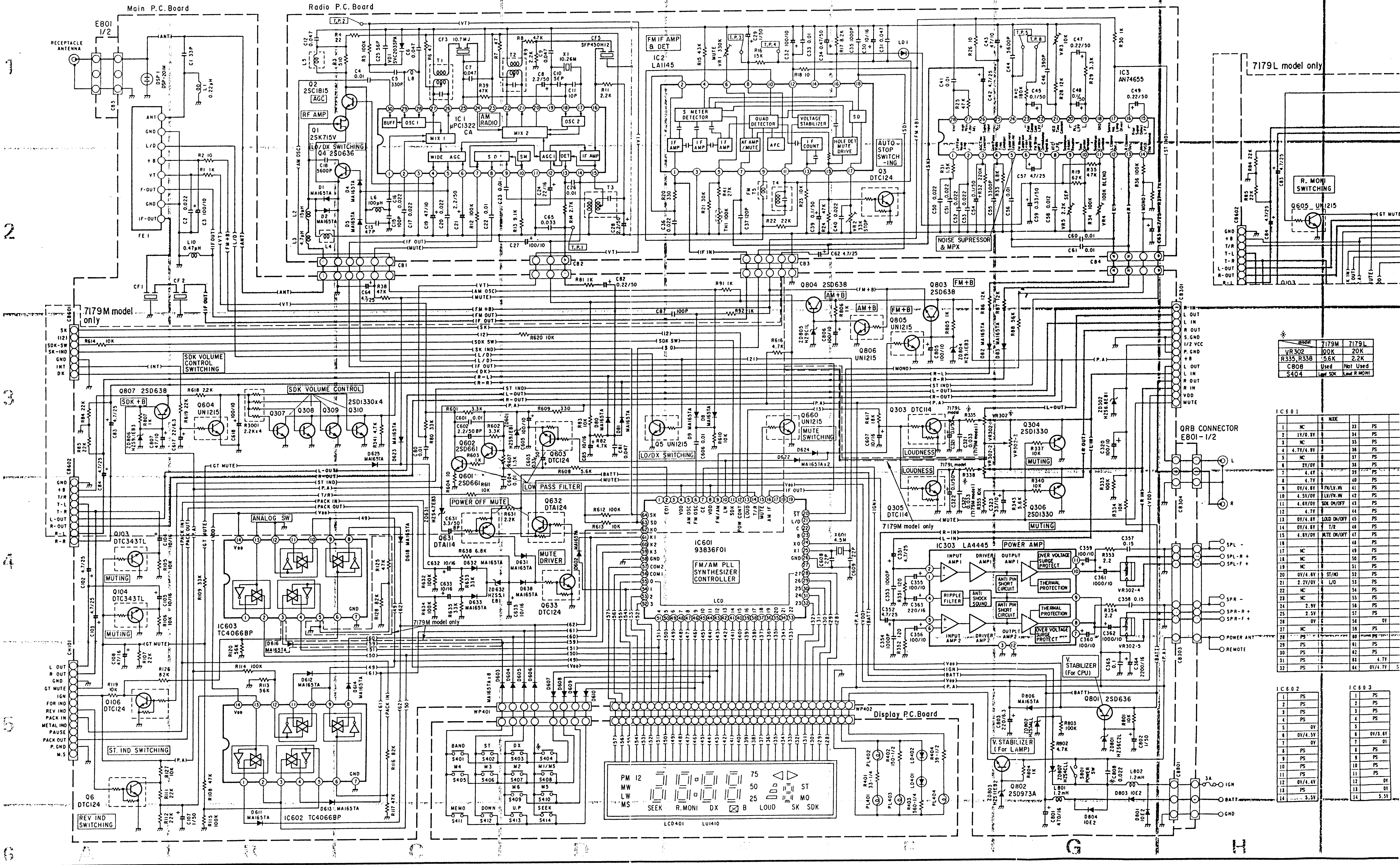
Head P.C.Board
HD1501
Mute Switch P.C.Board
S1504
Motor (M1501)
RED
BLK
Keep Solenoid (SD1501)
Program P.C.Board
S1502
Metal P.C.Board
S1503
GT Control P.C.Board
D1504
R1527
R1528
R1524
R1525
C1516
R1515
CB1501
C1503
C1505
C1507
R1507
R1505
C1509
R1503
R1501
R1508
R1506
C1508
R1504
R1502
R1513
C1511
R1515
D1501
S1501
R1521
C1502
C1504
C1501
CB1502
C1506
C1512
Q1501
R1510
R1514
R1511
R1512
R1523
C1510
C1514
R1509
BRN
WHT(1)
WHT(2)
WHT(3)
WHT(4)
WHT(5)
WHT(6)
WHT(7)
WHT(8)
①
③
㉞
GRY
SHLD
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
D7
D6
CB1
L2
DSP1
C243
C244
C245
C619
R642
C1
R2
Q805
R808
ZD804
Q806
R641
FE1
C2
R809
C809
C807
Q807
Q803
C612
ZD601
C613
C668
C618
R624
C617
R627
C609
R625
R628
R629
R626
Q607
Q606
C203
R206
D205
D204
D202
R205
D201
GRY
Q802
D627
C802
R803
R204
R202
R203
R201
ZD802
D805
C805
C806
D806
C804
C803
D619
D620
D621
D622
D618
D617
D616
D615
S413
S412
LD402
LD401
S414
S406
R403
S407
S408
PL402
R401
PL401
S401
S409
S410
S405
LCD401
PL404
S402
S403
R402
R404
S411
S404
PL403
VR201-2
VR201-1
VR202-2
VR202-1
Display P.C.Board
※


Main P.C.Board
Tuner P.C.Board
ASSY, QRB Connector
Lug
IC601
IC602
IC603
IC201
IC202
SHLD
RED
WHT
GRY
BLK
BRN
ORG
YEL
GRN
BLU
VIO
※

| | |
|---|---|
| BLU | Blue |
| GRN | Green |
| BLK | Black |
| GRY | Gray |
| WHT | White |
| RED | Red |
| BRN | Brown |
| ORG | Orange |
| YEL | Yellow |
| PNK | Pink |
| VIO | Violet |
| GRN/WHT | Green/White |
| GRY/WHT | Gray/White |
| GRY/YEL | Gray/Yellow |
| GRN/YEL | Green/Yellow |
| SHLD | Shield |

# Schematic Diagram (1/3)

| IC | IC603 IC602 | IC1 | IC601 | IC2 | IC303 | IC3 | Q605 |
|---|---|---|---|---|---|---|---|
| Transistor (Q) | Q6 Q106 Q103 Q104 Q807 Q604 Q307 Q308 Q1 Q4 Q2 Q309 Q310 | Q601 Q602 Q631 Q632 Q603 Q633 | Q5 | Q660 Q804 Q806 Q3 | Q805 Q803 Q303 ~ Q306 Q802 | Q801 | |



Main P.C. Board
Radio P.C. Board
E801 1/2
RECEPTACLE ANTENNA
RF AMP
LO/DX SWITCHING
IC1 μPC1322CA
AM RADIO
FM IF AMP & DET
IC2 LA1145
S METER DETECTOR
QUAD DETECTOR
VOLTAGE STABILIZER
AUTO-STOP SWITCH-ING
IC3 AN7465S
NOISE SUPRESSOR & MPX
7179L model only
R. MONI SWITCHING
7179M model only
SDK VOLUME CONTROL SWITCHING
SDK VOLUME CONTROL
ANALOG SW
IC603 TC4066BP
IC602 TC4066BP
MUTING
ST. IND SWITCHING
REV IND SWITCHING
LOW PASS FILTER
POWER OFF MUTE
MUTE DRIVER
LO/DX SWITCHING
MUTE SWITCHING
IC601 93836F01
FM/AM PLL SYNTHESIZER CONTROLLER
LOUDNESS
IC303 LA4445
POWER AMP
INPUT AMP1
DRIVER AMP1
OUTPUT AMP1
OVER VOLTAGE SURGE PROTECT
THERMAL PROTECTION
ANTI PIN SHORT CIRCUIT
RIPPLE FILTER
ANTI SHOCK SOUND
INPUT AMP2
DRIVER AMP2
OUTPUT AMP2
V. STABILIZER (For CPU)
V. STABILIZER (For LAMP)
QRB CONNECTOR E801-1/2
Display P.C. Board
PM 12
MW
LW
MS
SEEK
R.MONI
DX
B
LOUD
SK
SDK
ST
MO
LCD401
LU1410
BAND S401
ST S402
DX S403
S404
M4 S405
M3 S406
M2 S407
M1/MS S408
M6 S409
M5 S410
MEMO S411
DOWN S412
UP S413
SEEK S414
SPL -
SPL-R +
SPL-F +
SPR -
SPR-R +
SPR-F +
POWER ANT
REMOTE
IGN
BATT
GND

※

| model | 7179M | 7179L |
|---|---|---|
| VR302 | 100K | 20K |
| R335, R338 | 5.6K | 2.2K |
| C808 | Used | Not Used |
| S404 | Loud SDK | Loud R.MONI |

IC601

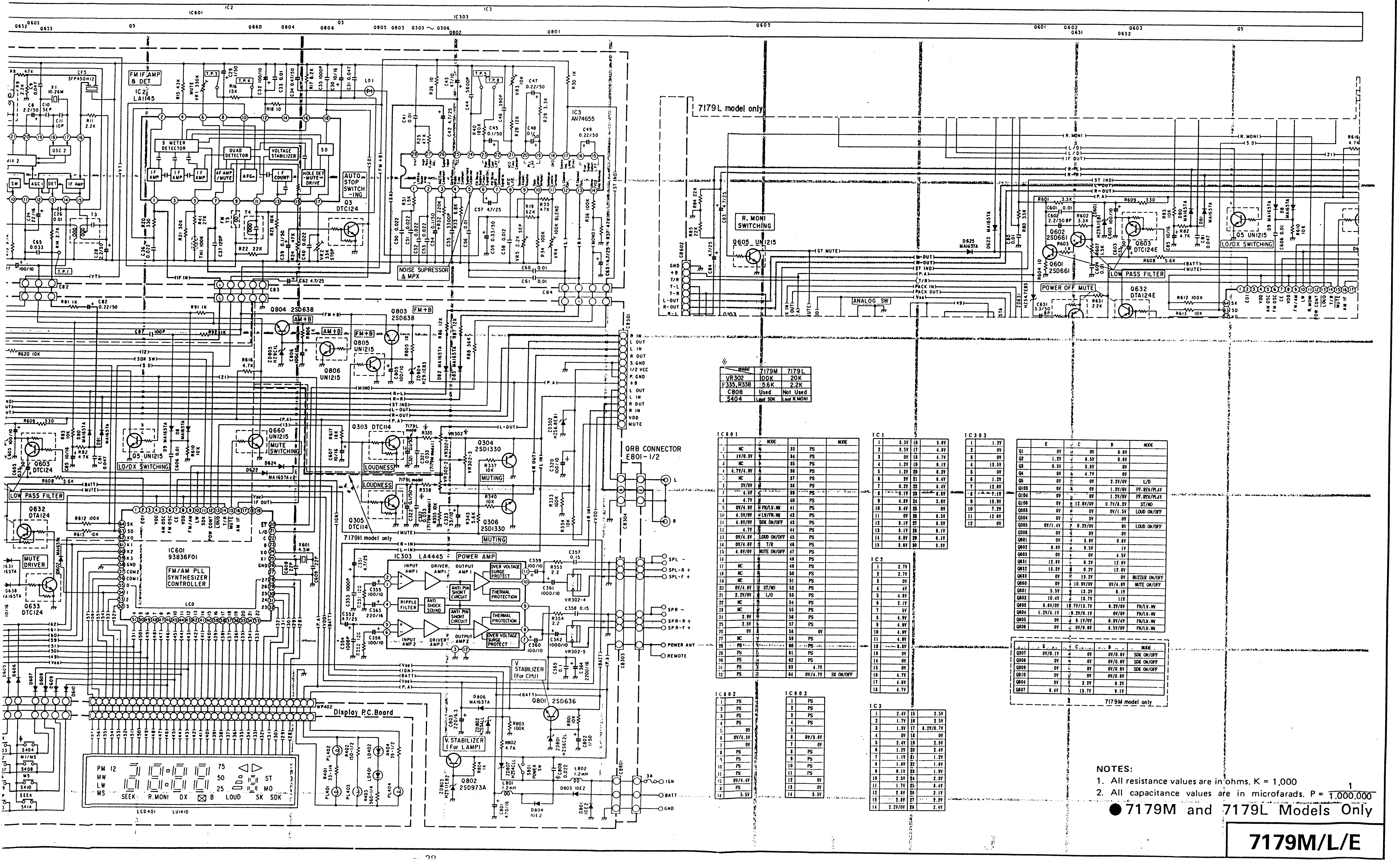
| | | MODE | | |
|---|---|---|---|---|
| 1 | NC | | 33 | PS |
| 2 | 1V/0.3V | | 34 | PS |
| 3 | NC | | 35 | PS |
| 4 | 4.7V/4.9V | | 36 | PS |
| 5 | NC | | 37 | PS |
| 6 | 2V/0V | | 38 | PS |
| 7 | 4.4V | | 39 | PS |
| 8 | 4.7V | | 40 | PS |
| 9 | 0V/4.6V | FM/LW.MW | 41 | PS |
| 10 | 4.5V/0V | LW/FM.MW | 42 | PS |
| 11 | 4.6V/0V | SDK ON/OFF | 43 | PS |
| 12 | 4.7V | | 44 | PS |
| 13 | 0V/4.8V | LOUD ON/OFF | 45 | PS |
| 14 | 0V/4.6V | T/R | 46 | PS |
| 15 | 4.8V/0V | MUTE ON/OFF | 47 | PS |
| 16 | | | 48 | PS |
| 17 | NC | | 49 | PS |
| 18 | NC | | 50 | PS |
| 19 | NC | | 51 | PS |
| 20 | 0V/4.6V | ST/MO | 52 | PS |
| 21 | 2.2V/0V | L/O | 53 | PS |
| 22 | NC | | 54 | PS |
| 23 | NC | | 55 | PS |
| 24 | 2.9V | | 56 | PS |
| 25 | 2.5V | | 57 | PS |
| 26 | 0V | | 58 | 0V |
| 27 | NC | | 59 | PS |
| 28 | PS | | 60 | PS |
| 29 | PS | | 61 | PS |
| 30 | PS | | 62 | PS |
| 31 | PS | | 63 | 4.7V |
| 32 | PS | | 64 | 0V/4.7V |

IC602

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | 0V |
| 6 | 0V/4.5V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V/4.4V |
| 13 | PS |
| 14 | 5.5V |

IC603

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | |
| 6 | 0V/3.6V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V |
| 13 | 0V |
| 14 | 5.5V |


IC601
IC2
IC303
IC3
FM IF AMP & DET
IC2 LA1145
IC3 AN7465S
7179L model only
R. MONI SWITCHING
Q605 UN1215
Q602 2SD661
Q603 DTC124E
Q5 UN1215
LO/DX SWITCHING
LOW PASS FILTER
POWER OFF MUTE
Q632 DTA124E
Q601 2SD661
AUTO STOP SWITCH -ING
Q3 DTC124
NOISE SUPRESSOR & MPX
Q804 2SD638
Q803 2SD638
Q805 UN1215
Q806 UN1215
Q660 UN1215
MUTE SWITCHING
Q303 DTC114
Q304 2SD1330
LOUDNESS
MUTING
Q305 DTC114
Q306 2SD1330
7179M model only
QRB CONNECTOR E801-1/2
IC601 93836F01
FM/AM PLL SYNTHESIZER CONTROLLER
IC303 LA4445
POWER AMP
RIPPLE FILTER
ANTI SHOCK SOUND
ANTI PIN SHORT CIRCUIT
THERMAL PROTECTION
OVER VOLTAGE SURGE PROTECT
V STABILIZER (For CPU)
Q801 2SD636
V. STABILIZER (For LAMP)
Q802 2SD973A
Q633 DTC124
MUTE DRIVER
Q632 DTA124
Q603 DTC124
LO/DX SWITCHING
Display P.C.Board
LCD401
SEEK
R.MONI
DX
LOUD
SK
SDK
ST
MO
PM
MW
LW
MS
SPL -
SPL-R +
SPL-F +
SPR -
SPR-R +
SPR-F +
POWER ANT
REMOTE
IGN
BATT
GND

| model | 7179M | 7179L |
|---|---|---|
| VR302 | 100K | 20K |
| R335, R338 | 5.6K | 2.2K |
| C808 | Used | Not Used |
| S404 | Loud SDK | Loud R.MONI. |

IC601

| | | MODE | | | MODE |
|---|---|---|---|---|---|
| 1 | NC | | 33 | PS | |
| 2 | 1V/0.8V | | 34 | PS | |
| 3 | NC | | 35 | PS | |
| 4 | 4.7V/4.9V | | 36 | PS | |
| 5 | NC | | 37 | PS | |
| 6 | 2V/0V | | 38 | PS | |
| 7 | 4.4V | | 39 | PS | |
| 8 | 4.7V | | 40 | PS | |
| 9 | 0V/4.8V | FM/LW.MW | 41 | PS | |
| 10 | 4.5V/0V | LW/FM.MW | 42 | PS | |
| 11 | 4.6V/0V | SDK ON/OFF | 43 | PS | |
| 12 | 4.7V | | 44 | PS | |
| 13 | 0V/4.8V | LOUD ON/OFF | 45 | PS | |
| 14 | 0V/4.6V | T/R | 46 | PS | |
| 15 | 4.6V/0V | MUTE ON/OFF | 47 | PS | |
| 16 | | | 48 | PS | |
| 17 | NC | | 49 | PS | |
| 18 | NC | | 50 | PS | |
| 19 | NC | | 51 | PS | |
| 20 | 0V/4.6V | ST/MO | 52 | PS | |
| 21 | 2.2V/0V | I/O | 53 | PS | |
| 22 | NC | | 54 | PS | |
| 23 | NC | | 55 | PS | |
| 24 | 2.9V | | 56 | PS | |
| 25 | 2.5V | | 57 | PS | |
| 26 | 0V | | 58 | 0V | |
| 27 | NC | | 59 | PS | |
| 28 | PS | | 60 | PS | |
| 29 | PS | | 61 | PS | |
| 30 | PS | | 62 | PS | |
| 31 | PS | | 63 | 4.7V | |
| 32 | PS | | 64 | 0V/4.7V | SK ON/OFF |

IC1

| | | | |
|---|---|---|---|
| 1 | 3.5V | 16 | 3.8V |
| 2 | 3.5V | 17 | 4.8V |
| 3 | 0V | 18 | 4.7V |
| 4 | 1.2V | 19 | 6.1V |
| 5 | 1.2V | 20 | 6.2V |
| 6 | 2V | 21 | 8.4V |
| 7 | 0.2V | 22 | 8.4V |
| 8 | 0.1V | 23 | 8.8V |
| 9 | 4.8V | 24 | 3.6V |
| 10 | 3.4V | 25 | 0V |
| 11 | 0V | 26 | 8.5V |
| 12 | 3.1V | 27 | 8.5V |
| 13 | 3.1V | 28 | 6.1V |
| 14 | 8.6V | 29 | 6.1V |
| 15 | 3.6V | 30 | 3.3V |

IC303

| | |
|---|---|
| 1 | 1.2V |
| 2 | 0V |
| 3 | 0V |
| 4 | 13.5V |
| 5 | 0V |
| 6 | 1.2V |
| 7 | 12.6V |
| 8 | 7.1V |
| 9 | 13.9V |
| 10 | 7.2V |
| 11 | 12.6V |
| 12 | 0V |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q1 | 0V | 0V | 0.6V | |
| Q2 | 1.2V | 8.5V | 0.6V | |
| Q3 | 0.3V | 3.8V | 0V | |
| Q4 | 0V | 4.7V | 0V | |
| Q5 | 0V | 0V | 2.2V/0V | L/D |
| Q103 | 0V | 0V | 1.2V/0V | FF.REV/PLAY |
| Q104 | 0V | 0V | 1.2V/0V | FF.REV/PLAY |
| Q106 | 0V | 12.6V/0V | 0.7V/8.2V | ST/MO |
| Q303 | 0V | 0V | 0V/1.5V | LOUD ON/OFF |
| Q304 | 0V | 0V | 0V | |
| Q305 | 0V/1.4V | 0.2V/0V | 0V | LOUD ON/OFF |
| Q306 | 0V | 0V | 0V | |
| Q601 | 0V | 3.8V | 0.6V | |
| Q602 | 0.6V | 9.5V | 1V | |
| Q603 | 0V | 0V | 4.5V | |
| Q631 | 12.8V | 0.2V | 12.8V | |
| Q632 | 13.2V | 0.2V | 12.8V | |
| Q633 | 0V | 13.2V | 0V | BUZZER ON/OFF |
| Q660 | 0V | 10.9V/0V | 0V/4.8V | MUTE ON/OFF |
| Q801 | 5.5V | 13.2V | 6.1V | |
| Q802 | 10.4V | 13.7V | 11V | |
| Q803 | 8.6V/0V | 13.7V/13.7V | 9.2V/0V | FM/LW.MW |
| Q804 | 1.2V/4.1V | 9.2V/0.1V | 0V/0V | FM/LW.MW |
| Q805 | 0V | 9.1V/0V | 0.8V/4V | FM/LW.MW |
| Q806 | 0V | 0V/9.8V | 8.5V/0V | FM/LW.MW |

IC2

| | |
|---|---|
| 1 | 2.7V |
| 2 | 2.7V |
| 3 | 0V |
| 4 | 4V |
| 5 | 4.8V |
| 6 | 2.1V |
| 7 | 5V |
| 8 | 4.9V |
| 9 | 4.9V |
| 10 | 4.9V |
| 11 | 4.9V |
| 12 | 8.8V |
| 13 | 0V |
| 14 | 0V |
| 15 | 0V |
| 16 | 4.7V |
| 17 | 4.6V |
| 18 | 4.7V |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q307 | 0V/0.1V | 0V | 0V/0.6V | SDK ON/OFF |
| Q308 | 0V | 0V | 0V/0.8V | SDK ON/OFF |
| Q309 | 0V | 0V | 0V/0.8V | SDK ON/OFF |
| Q310 | 0V | 0V | 0V/0.6V | |
| Q604 | 0V | 2.2V | 0.2V | |
| Q807 | 8.4V | 13.7V | 9.1V | |

7179M model only

IC602

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | 0V |
| 6 | 0V/4.5V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V/4.4V |
| 13 | PS |
| 14 | 5.5V |

IC603

| | |
|---|---|
| 1 | PS |
| 2 | PS |
| 3 | PS |
| 4 | PS |
| 5 | |
| 6 | 0V/3.6V |
| 7 | 0V |
| 8 | PS |
| 9 | PS |
| 10 | PS |
| 11 | PS |
| 12 | 0V |
| 13 | 0V |
| 14 | 5.5V |

IC3

| | | | |
|---|---|---|---|
| 1 | 2.4V | 15 | 2.5V |
| 2 | 1.7V | 16 | 2.5V |
| 3 | 1.3V | 17 | 8.2V/0.7V |
| 4 | 0V | 18 | 0V |
| 5 | 2.4V | 19 | 2.5V |
| 6 | 1.2V | 20 | 2.4V |
| 7 | 1.1V | 21 | 1.2V |
| 8 | 1.6V | 22 | 1.8V |
| 9 | 0.1V | 23 | 1.9V |
| 10 | 2.5V | 24 | 2.3V |
| 11 | 1.7V | 25 | 8.4V |
| 12 | 2.8V | 26 | 2.1V |
| 13 | 2.8V | 27 | 2.2V |
| 14 | 2.2V/0V | 28 | 2.4V |

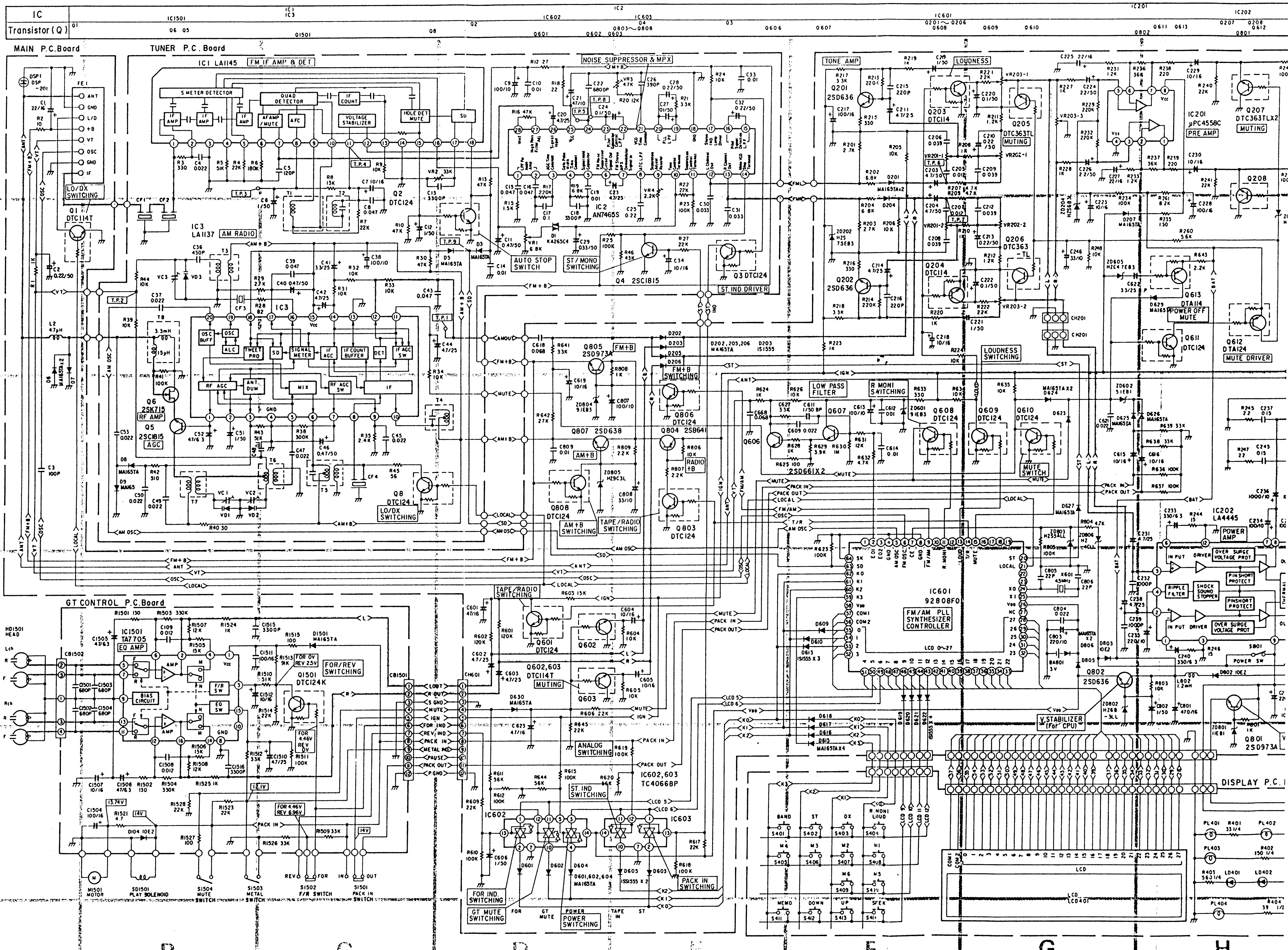
NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

● 7179M and 7179L Models Only

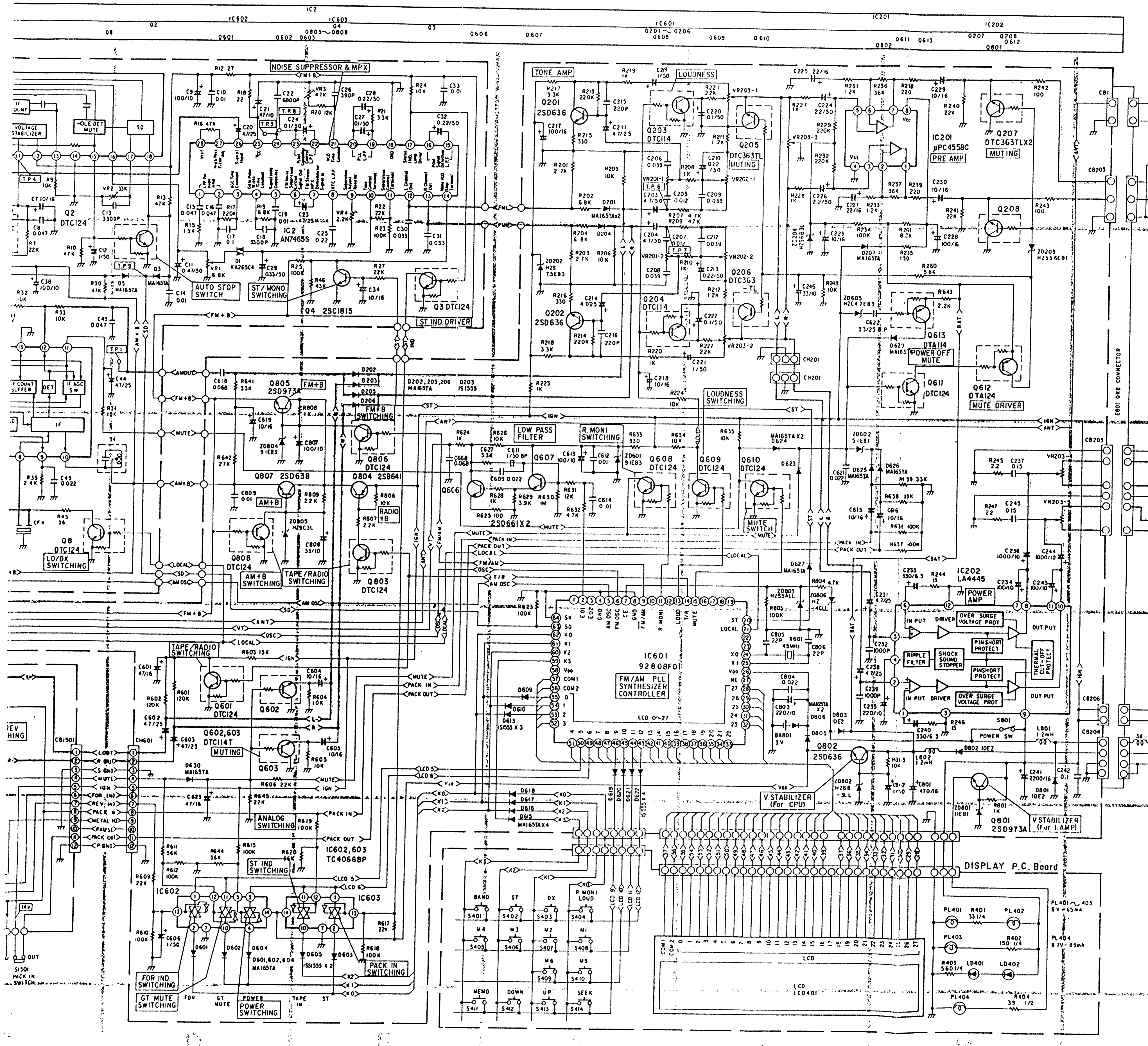
**7179M/L/E**

# Schematic Diagram (2/3)


IC
Transistor (Q)
IC1501
IC1
IC3
IC602
IC2
IC603
IC601
IC201
IC202
MAIN P.C.Board
TUNER P.C.Board
GT CONTROL P.C.Board
DISPLAY P.C.
IC1 LA1145 FM IF AMP & DET
S METER DETECTOR
QUAD DETECTOR
IF COUNT
VOLTAGE STABILIZER
HOLE DET MUTE
LO/DX SWITCHING
Q1 DTC114T
IC3 LA1137 AM RADIO
Q2 DTC124
NOISE SUPPRESSOR & MPX
IC2 AN7465S
AUTO STOP SWITCH
ST/MONO SWITCHING
Q4 2SC1815
Q3 DTC124
ST IND DRIVER
Q6 2SK715 RF AMP
Q5 2SC1815 AGC
Q8 DTC124 LO/DX SWITCHING
TONE AMP
Q201 2SD636
Q202 2SD636
LOUDNESS
Q203 DTC114
Q204 DTC114
Q205 DTC363TL MUTING
Q206 DTC363TL
LOUDNESS SWITCHING
IC201 μPC4558C PRE AMP
Q207 DTC363TLX2 MUTING
Q208
Q613 DTA114 POWER OFF MUTE
Q611 DTC124
Q612 DTA124 MUTE DRIVER
Q805 2SD973A FM+B
FM+B SWITCHING
Q806 DTC124
Q807 2SD638
Q804 2SB641 RADIO +B
Q808 DTC124 AM+B SWITCHING
TAPE/RADIO SWITCHING
Q803 DTC124
LOW PASS FILTER
R MONI SWITCHING
Q606
Q607
Q608 DTC124
Q609 DTC124
Q610 DTC124 MUTE SWITCH
IC601 92808F0 FM/AM PLL SYNTHESIZER CONTROLLER
IC202 LA4445 POWER AMP
Q802 2SD636
V.STABILIZER (For CPU)
Q801 2SD973A
IC1501 TA7705 EQ AMP
BIAS CIRCUIT
Q1501 DTC124K
FOR/REV SWITCHING
Q601 DTC124
Q602
Q602,603 DTC114T MUTING
Q603
ANALOG SWITCHING
ST IND SWITCHING
IC602,603 TC4066BP
IC602
IC603
FOR IND. SWITCHING
GT MUTE SWITCHING
POWER SWITCHING
PACK IN SWITCHING
HD1501 HEAD
M1501 MOTOR
SD1501 PLAY SOLENOID
S1504 MUTE SWITCH
S1503 METAL SWITCH
S1502 F/R SWITCH
S1501 PACK IN SWITCH
LCD
LCD401
A
B
C
D
E
F
G
H
I

● 7179E Model Only

**7179M/L/E**



NOISE SUPPRESSOR & MPX
IC2 AN7465S
AUTO STOP SWITCH
ST/MONO SWITCHING
Q4 2SC1815
Q3 DTC124
ST.IND DRIVER
Q2 DTC124
Q8 DTC124
LO/DX SWITCHING
HOLE DET MUTE
VOLTAGE STABILIZER
TONE AMP
Q201 2SD636
Q202 2SD636
Q203 DTC114
Q204 DTC114
LOUDNESS
Q205 DTC363TL
MUTING
Q206 DTC363-TL
IC201 μPC4558C
PRE AMP
Q207 DTC363TLX2
MUTING
Q208
Q613 DTA114
POWER OFF MUTE
Q611 DTC124
Q612 DTA124
MUTE DRIVER
E801 GRB CONNECTOR
ANT E802-1
Lch E802-2
Rch E802-3
SP LEFT E802-4
SP L-R E802-5
SP L-F E802-6
SP RIGHT E802-7
SP R-R E802-8
SP R-F E802-9
POWER ANT E802-10
REMOTE
IGN E802-11
BAT E802-12
GNT E802-13
Q805 2SD973A
FM+B
Q806 DTC124
FM+B SWITCHING
Q807 2SD638
AM+B
Q804 2SB641
RADIO +B
Q808 DTC124
AM+B SWITCHING
TAPE/RADIO SWITCHING
Q803 DTC124
LOW PASS FILTER
Q607 2SD661X2
R MONI SWITCHING
Q608 DTC124
LOUDNESS SWITCHING
Q609 DTC124
Q610 DTC124
MUTE SWITCH
IC202 LA4445
POWER AMP
OVER SURGE VOLTAGE PROT
PINSHORT PROTECT
RIPPLE FILTER
SHOCK SOUND STOPPER
THERMAL CUT-OFF PROTECT
IC601 92808F01
FM/AM PLL SYNTHESIZER CONTROLLER
TAPE/RADIO SWITCHING
Q601 DTC124
Q602
Q602,603 DTC114T
MUTING
Q603
ANALOG SWITCHING
ST IND SWITCHING
IC602,603 TC4066BP
IC602
IC603
FOR IND SWITCHING
GT MUTE SWITCHING
POWER SWITCHING
PACK IN SWITCHING
S1501 PACK IN SWITCH
CB1501
V.STABILIZER (For CPU)
Q802 2SD636
Q801 2SD973A
V.STABILIZER (For LAMP)
DISPLAY P.C. Board
BAND S401
ST
DX
R.MONI LOUD S404
M4 S405
M3 S406
M2 S407
M1 S408
M6 S409
M5 S410
MEMO S411
DOWN S412
UP S413
SEEK S414
LCD LCD401
PL401∼403 6V-65mA
PL404 6.7V-85mA

| | E | C | B | MODE |
|---|---|---|---|---|
| Q1 | 0V/0V | 0V/7.3V | 4.3V/0V | L/D |
| Q2 | 0V | 5.4V | 0V | S/D |
| Q3 | 0V | 0V/0.6V | 0V/4.2V | ST IND |
| Q4 | 0V | 2.4V/0V | 0V/0.7V | ST MONO |
| Q5 | 1.8V | 8.7V | 2.4V | |
| Q8 | 0V | 0V | 0.7V/0V | MUTE |
| Q201 | 0.5V | 2.67V | 1.14V | |
| Q202 | 0.5V | 2.67V | 1.14V | |
| Q203 | 0V | 0V | 3.3V | LODE |
| Q204 | 0V | 0V | 3.3V | LODE |
| Q205 | 0V | 0V | 0V/4.3V | MUTE |
| Q206 | 0V | 0V | 0V/4.3V | MUTE |
| Q207 | 0V | 0V | 0V/8V | MUTE |
| Q208 | 0V | 0V | 0V/8V | MUTE |
| Q601 | 0V | 0V | 4.3V | T/R |
| Q602 | 0V | 0V | 12.7V/0V | MUTE |
| Q603 | 0V | 0V | 12.7V/0V | MUTE |
| Q606 | 0V | 3.7V | 0.6V | |
| Q607 | 0.6V | 9.2V | 1.1V | |
| Q608 | 0V | 0V | 4.4V/0V | MONI |
| Q609 | 0V | 8.1V | 0V | LOUD |
| Q610 | 0V | 0V | 4.3V | MUTE |
| Q611 | 0V | 13.8V | 0V | |
| Q612 | 13.3V | 0V | 13.3V | |
| Q613 | 13.3V | 0V | 13.3V | |
| Q801 | 9.8V | 13.8V | 10.4V | |
| Q802 | 5.1V | 13.8V | 5.8V | |
| Q803 | 0V | 0V | 4.3V | T/R |
| Q804 | 13.8V | 13.5V | 12.9V | |
| Q805 | 8.5V | 13.5V | 9.1V | FM |
| Q806 | 0V | 9.1V | 0V | FM |
| Q807 | 0V | 13.5V | 9.7V | AM |
| Q808 | 0V | 9.7V | 0V | AM |

IC201

| | |
|---|---|
| 1 | 6.7V |
| 2 | 6.7V |
| 3 | 6.7V |
| 4 | 0V |
| 5 | 6.7V |
| 6 | 6.7V |
| 7 | 6.7V |
| 8 | 12.7V |

IC203

| | |
|---|---|
| 1 | 12.9V |
| 2 | 0V |
| 3 | 0V |
| 4 | 14V |
| 5 | 0V |
| 6 | 12.9V |
| 7 | 13V |
| 8 | 7.1V |
| 9 | 14V |
| 10 | 7.2V |
| 11 | 13V |
| 12 | 0V |

IC1501

| | | MODE |
|---|---|---|
| 1 | 12.9V | |
| 2 | 2.97V | |
| 3 | 0V | FOR |
| | 2.48V | REV |
| 4 | 2.88V | |
| 5 | 2.85V | |
| 6 | 2.85V | |
| 7 | 2.85V | |
| 8 | 0V | |
| 9 | 2.84V | |
| 10 | | |
| 11 | 2.85V | |
| 12 | 2.85V | |
| 13 | 2.85V | |
| 14 | 2.88V | |
| 15 | 9.3V | METAL |
| | 0V | NORMAL |
| 16 | 2.96V | |

FET6

| | |
|---|---|
| G | 0V |
| D | 1.8V |
| S | 0V |

IC1

| | | | |
|---|---|---|---|
| 1 | 2.8V | 10 | 4.9V |
| 2 | 2.8V | 11 | 4.9V |
| 3 | 0V | 12 | 7.8V |
| 4 | 4V | 13 | 0V |
| 5 | 4V | 14 | 0V |
| 6 | 1.9V | 15 | 0V |
| 7 | 5V | 16 | 4.1V |
| 8 | 5V | 17 | 3.9V |
| 9 | 5V | 18 | 0V |

IC2

| | | | |
|---|---|---|---|
| 1 | 2.4V | 15 | 2.4V |
| 2 | 1.8V | 16 | 2.4V |
| 3 | 1.2V | 17 | 6.1V |
| 4 | 0V | 18 | 0V |
| 5 | 2.5V | 19 | 2.4V |
| 6 | 1.3V | 20 | 2.4V |
| 7 | 1.2V | 21 | 1.3V |
| 8 | 1.8V | 22 | 2.4V |
| 9 | 0V | 23 | 2.4V |
| 10 | 2.2V | 24 | 2.4V |
| 11 | 1.8V | 25 | 8.2V |
| 12 | 3V | 26 | 2.4V |
| 13 | 3V | 27 | 2.4V |
| 14 | 2.5V/0V | 28 | 2.4V |

IC3

| | | | |
|---|---|---|---|
| 1 | 1V | 11 | 0V |
| 2 | 1.5V | 12 | 5.1V |
| 3 | 3.5V | 13 | 0V |
| 4 | 0V | 14 | 5.2V |
| 5 | 2V | 15 | 8.9V |
| 6 | 8.9V | 16 | 3.3V |
| 7 | 6.2V | 17 | 4.4V |
| 8 | 1.5V | 18 | 5.7V |
| 9 | 1V | 19 | 8.9V |
| 10 | 8.9V | 20 | 5.6V |

IC601

| | | MODE | | | MODE |
|---|---|---|---|---|---|
| 1 | 6.7V | | 33 | PS | |
| 2 | 1.1V | | 34 | PS | |
| 3 | 4.4V | | 35 | PS | |
| 4 | 0V | | 36 | PS | |
| 5 | 1.7V | AM OSC | 37 | PS | |
| 6 | 1.8V | FM OSC | 38 | PS | |
| 7 | 4.4V | | 39 | PS | |
| 8 | 0V | | 40 | PS | |
| 9 | 0V/4.5V | FM/AM | 41 | PS | |
| 10 | 0V | | 42 | PS | |
| 11 | 4.4V | MONI | 43 | PS | |
| 12 | 4.4V | | 44 | PS | |
| 13 | 0V | LOUD | 45 | PS | |
| 14 | 4.4V | MUTE | 46 | PS | |
| 15 | 4.4V | | 47 | PS | |
| 16 | 0V | | 48 | PS | |
| 17 | 4.3V | | 49 | PS | |
| 18 | 4.4V | | 50 | PS | |
| 19 | 4.4V | | 51 | PS | |
| 20 | 4.4V | ST/MONO | 52 | PS | |
| 21 | 4.3V/0V | L/D | 53 | PS | |
| 22 | 4.5V | | 54 | PS | |
| 23 | 4.5V | | 55 | PS | |
| 24 | 1.9V | | 56 | PS | |
| 25 | 1.9V | | 57 | PS | |
| 26 | 4.6V | | 58 | 4.6V | |
| 27 | PS | | 59 | PS | |
| 28 | PS | | 60 | PS | |
| 29 | PS | | 61 | PS | |
| 30 | PS | | 62 | PS | |
| 31 | PS | | 63 | 4.9V/0V | ON/OFF |
| 32 | PS | | 64 | 0V | |

IC602

| | ON | OFF |
|---|---|---|
| 1 | PS | |
| 2 | PS | 0V |
| 3 | PS | |
| 4 | PS | 0V |
| 5 | 5V | |
| 6 | 0V | |
| 7 | 0V | |
| 8 | 0V | |
| 9 | 0V | |
| 10 | PS | 0V |
| 11 | PS | |
| 12 | 5.9V | |
| 13 | 5V | |
| 14 | 5.2V | |

IC603

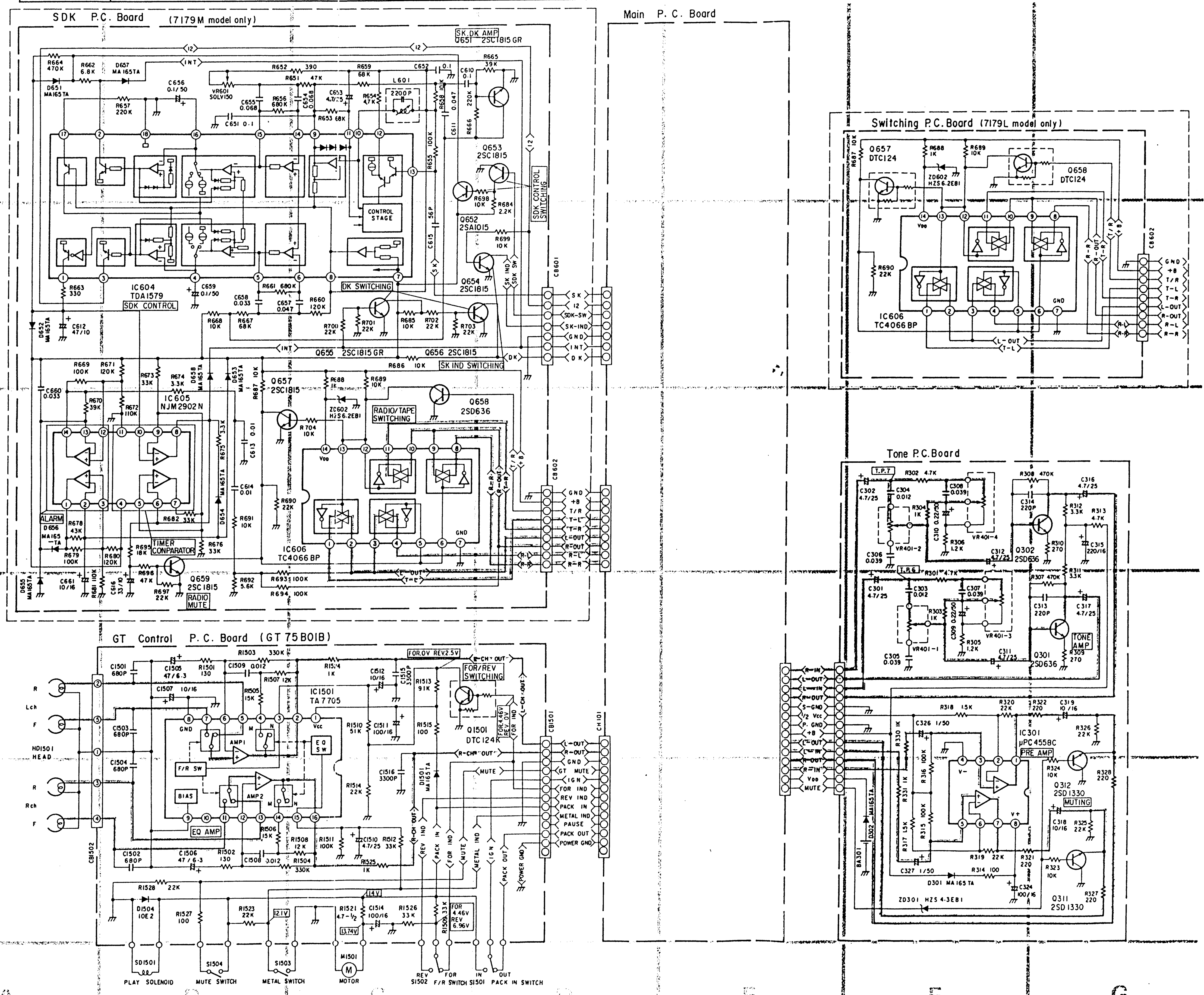
| | ON | OFF |
|---|---|---|
| 1 | PS | |
| 2 | PS | 0V |
| 3 | 0V | |
| 4 | 0V | |
| 5 | 0V | |
| 6 | 0V | |
| 7 | 0V | |
| 8 | 0V | |
| 9 | 0V | |
| 10 | PS | 0V |
| 11 | PS | |
| 12 | 4.6V | |
| 13 | 4.9V | |
| 14 | 5.2V | |

[Measuring Conditions]
- Power Supply : DC14V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : No Signal Input
  AM 1000KHz
  FM 98.1MHz
  TAPE:BLANK TAPE

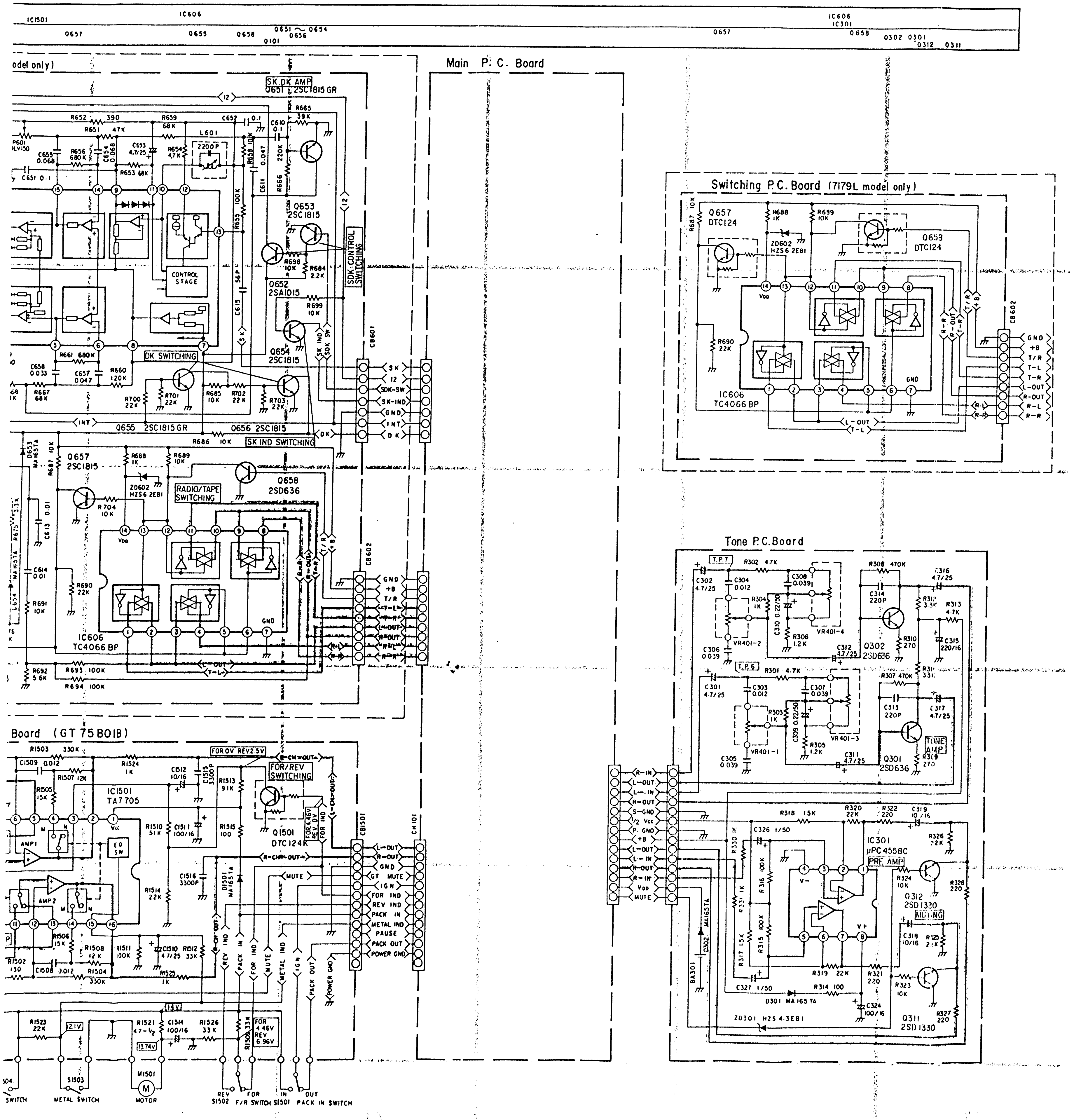
NOTES:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

# Schematic Diagram (3/3)

| IC | IC605 IC604 IC1501 IC606 IC606 IC301 |
|---|---|
| Transistor (Q) | Q659 Q657 Q655 Q658 Q101 Q651 ~ Q654 Q656 Q657 Q658 Q302 Q301 Q312 Q311 |



SDK P.C. Board (7179M model only)
SK.DK AMP Q651 2SC1815 GR
IC604 TDA1579 SDK CONTROL
CONTROL STAGE
DK SWITCHING
Q652 2SA1015
Q653 2SC1815
Q654 2SC1815
SDK CONTROL SWITCHING
Q655 2SC1815 GR
Q656 2SC1815
SK IND SWITCHING
IC605 NJM2902N
ALARM
TIMER COMPARATOR
Q659 2SC1815
RADIO MUTE
Q657 2SC1815
Q658 2SD636
RADIO/TAPE SWITCHING
IC606 TC4066 BP
CB601
CB602
Main P.C. Board
Switching P.C. Board (7179L model only)
Q657 DTC124
Q658 DTC124
IC606 TC4066 BP
Tone P.C. Board
Q302 2SD636
Q301 2SD636
TONE AMP
IC301 μPC4558C
PRE AMP
Q312 2SD1330
MUTING
Q311 2SD1330
GT Control P.C. Board (GT75B01B)
IC1501 TA7705
F/R SW
BIAS
AMP1
AMP2
EQ SW
EQ AMP
FOR/REV SWITCHING
Q1501 DTC124K
FOR.0V REV.2.5V
HD1501 HEAD
R Lch F R Rch F
CB1501
CB1502
CH101
SD1501 PLAY SOLENOID
S1504 MUTE SWITCH
S1503 METAL SWITCH
M1501 MOTOR
REV S1502 FOR F/R SWITCH
S1501 IN OUT PACK IN SWITCH
14V 12.1V 13.74V
FOR 4.46V REV 6.96V
A B C D E F G


Main P. C. Board
Switching P.C. Board (7179L model only)
Tone P.C. Board
Board (GT 75 BO1B)
SK.DK AMP
SDK CONTROL SWITCHING
DK SWITCHING
SK IND SWITCHING
RADIO/TAPE SWITCHING
FOR/REV SWITCHING
PRE AMP
TONE AMP
MUTING
IC606 TC4066 BP
IC1501 TA7705
IC301 μPC 4558C
CB601
CB602
CB1501
CN101
METAL SWITCH
MOTOR
F/R SWITCH
PACK IN SWITCH

IC604 (SK/DK)

| | |
|---|---|
| 1 | 0V |
| 2 | 0.1V/5.9V |
| 3 | 4.5V |
| 4 | 6.9V |
| 5 | 4.2V |
| 6 | 4.2V |
| 7 | 8.4V |
| 8 | 4.2V |
| 9 | 5.2V |
| 10 | 4.2V |
| 11 | 5.2V/4.6V |
| 12 | 4V |
| 13 | 4.3V |
| 14 | 4.2V |
| 15 | 4.4V |
| 16 | 0V/0.6V |
| 17 | 3.4V |
| 18 | 0V |

IC1501

| | | MODE |
|---|---|---|
| 1 | 12.9V | |
| 2 | 2.97V | |
| 3 | 0V<br>2.48V | FOR<br>REV |
| 4 | 2.88V | |
| 5 | 2.85V | |
| 6 | 2.85V | |
| 7 | 2.85V | |
| 8 | 0V | |
| 9 | 2.84V | |
| 10 | | |
| 11 | 2.85V | |
| 12 | 2.85V | |
| 13 | 2.85V | |
| 14 | 2.88V | |
| 15 | 9.3V<br>0V | METAL<br>NORMAL |
| 16 | 2.96V | |

IC605

| | |
|---|---|
| 1 | 7.2V |
| 2 | 1.5V |
| 3 | 5.2V |
| 4 | 8.4V |
| 5 | 5.2V |
| 6 | 0.6V |
| 7 | 7.2V |
| 8 | 0.6V |
| 9 | 5.2V |
| 10 | 0V |
| 11 | 0V |
| 12 | 2.7V |
| 13 | 6.6V |
| 14 | 0.6V |

IC604, IC605
7179M model only

IC606 (TAPE/RADIO)

| | |
|---|---|
| 1 | 0V |
| 2 | 0V |
| 3 | 0V |
| 4 | 0V |
| 5 | 0V/5.7V |
| 6 | 0V/5.7V |
| 7 | 0V |
| 8 | 0V |
| 9 | 0V |
| 10 | 0V |
| 11 | 0V |
| 12 | 4.5V/0V |
| 13 | 4.5V/0V |
| 14 | 5.7V |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q301 | 0.1V | 2.6V | 0.8V | |
| Q302 | 0.1V | 2.5V | 0.8V | |
| Q311 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q312 | 0V | 0V | 0.6V/0V | MUTE ON/OFF |
| Q657 | 0V | 0V/5.7V | 0.6V/0V | TAPE/RADIO |
| Q658 | 0V | 4.5V/0V | 0V/0.6V | TAPE/RADIO |

| | E | C | B | MODE |
|---|---|---|---|---|
| Q651 | 0V | 4.4V | 0.6V | |
| Q652 | 8.4V/8.4V | 8.4V/0V | 7.7V/8.2V | SDK ON/OFF |
| Q653 | 0V | 0V/8.2V | 0.7V/0V | SDK ON/OFF |
| Q654 | 0V | 0V/3.2V | 0.6V/0.1V | SK ON/OFF |
| Q655 | 0V | 5.8V/5.8V | 0.1V/0.1V | DK ON/OFF |
| Q656 | 0V | 0V | 0.6V/0.6V | DK ON/OFF |
| Q659 | 0V | 0V/5.8V | 0.6V/0.1V | |

7179M model only

IC301

| | |
|---|---|
| 1 | 6.9V |
| 2 | 6.8V |
| 3 | 5.9V |
| 4 | 0V |
| 5 | 6.3V |
| 6 | 6.7V |
| 7 | 6.7V |
| 8 | 12.9V |

[Measuring Conditions]
1.Power Supply : 14V DC
2.Measuring Meter : Digital Multi Voltmeter
3.Measuring Point : Between Ground
4.Conditions : No Signal
FM···98.1MHz
MW···999KHz
LW···218KHz
TAPE···Blank Tape(Play)

NOTES:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

● 7179M and 7179L Models Only

**7179M/L/E**

# Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.
uF=microfarads, pF=picofarads

## Abbreviations

RES.=Resistor
C.F.=Carbon Film
M.F.=Metal Film
M.O.=Metal Oxide Film
M.P.=Metal Plate
TR.=Transistor
TRANS.=Transformer
CP.=Chip
CAP.=Capacitor
ELY.=Electrolytic
CER.=Ceramic
MYL.=Mylar
TAN.=Tantalum
POLY.=Polystyrol
PP.=Polypropylene
PLT.=Polyethylene

● Radio P. C. Board
▲ (For 7179M and 7179L models only.)

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| **IC's/Transistors** | | | | |
| IC1 | 51T94315F01 | μ PC1322CA | | |
| IC2 | 51T94495F01 | LA1145 | | |
| IC3 | 51T94316F01 | AN7465S | | |
| Q1 | 48T95129F03 | FET, 2SK715V | | |
| Q2 | 48S43525F03 | 2SC1815 | | |
| Q3 | 48T62963F03 | DTC124 | | |
| Q4 | 48S40627U04 | 2SD636 | | |
| **Diodes** | | | | |
| D1 | 48T44813F01 | MA165TA | | |
| D2 | 48T44813F01 | MA165TA | | |
| D4 | 48T44813F01 | MA165TA | | |
| D5 | 48T44813F01 | MA165TA | | |
| LD1 | 48T51833F03 | LED, BG4524K (GRN) | | |
| VD1 | 48T96538F01 | Varactor, SVC203-SPA | | |
| **Coils** | | | | |
| L2 | 24T51656F24 | Inductor 15 μ H | | |
| L3 | 24T51656F18 | Inductor 4.7 μ H | | |
| L4 | 24T94308F01 | Inductor 100mH | | |
| L5 | 24T94309F01 | Inductor 2mH | | |
| L6 | 24T51656F34 | Inductor 100 μ H | | |
| L8 | 24T94496F01 | OSC (RED) | | |
| **Transformers/Crystal/Filter** | | | | |
| T1 | 24T94496F02 | Coil, IFT-1 (BRN) | | |
| T2 | 24T94496F03 | Coil, IFT-2 (YEL) | | |
| T3 | 24T94496F04 | Coil, IFT-3 (BLK) | | |
| T4 | 24T10069W01 | Coil, FM 1F | | |
| T5 | 24T10069W02 | Coil, FM | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| X1 | 48T94314F02 | Crystal, 10.26MHz | | |
| CF3 | 91T94396F01 | CER., Filter, 10.71MJ | | |
| CF5 | 91T73118F02 | CER., Filter, SFP 450H12 | | |
| **Capacitors** | | | | |
| C4 | 08S65480F61 | CER., 0.01 μ F | | |
| C5 | 08S65480F43 | CER., 330pF | | |
| C6 | 08T44979P12 | CER., 0.047 μ F | | |
| C7 | 08T44979P12 | CER., 0.047 μ F | | |
| C8 | 23T43247F06 | ELY., 2.2 μ F/50V | | |
| C9 | 08T44979P12 | CER., 0.047 μ F | | |
| C10 | 08S65480F31 | CER., 56pF | | |
| C11 | 08S65480F13 | CER., 10pF | | |
| C12 | 08T44979P12 | CER.; 0.047 μ F | | |
| C13 | 08S65480F29 | CER., 47pF | | |
| C15 | 08S65480F37 | CER., 100pF | | |
| C16 | 08S65480F62 | CER., 0.022 μ F | | |
| C17 | 08S65480F62 | CER., 0.022 μ F | | |
| C18 | 08S65480F58 | CER., 5600pF | | |
| C19 | 23T43247F13 | ELY., 47 μ F/10V | | |
| C20 | 08T44979P10 | CER., 0.022 μ F | | |
| C21 | 23T43247F06 | ELY., 2.2 μ F/50V | | |
| C22 | 08S65480F61 | CER., 0.01 μ F | | |
| C23 | 08S65480F61 | CER., 0.01 μ F | | |
| C24 | 23T43247F10 | ELY., 22 μ F/16V | | |
| C25 | 08S65480F31 | CER., 56pF | | |
| C26 | 08S65480F61 | CER., 0.01 μ F | | |
| C27 | 23T43247F21 | ELY., 100 μ F/10V | | |
| C28 | 23T43247F06 | ELY., 2.2 μ F/50V | | |
| C29 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C30 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C31 | 08T44979P12 | CER., 0.047 μ F | | |
| C32 | 23T43247F21 | ELY., 100 μ F/10V | | |
| C33 | 08S65480F61 | CER., 0.01 μ F | | |
| C34 | 23T43247F04 | ELY., 0.47 μ F/50V | | |
| C35 | 08S65480F49 | CER., 1000pF | | |
| C36 | 08S65480F62 | CER., 0.022 μ F | | |
| C37 | 08S65480F38 | CER., 120pF | | |
| C39 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C40 | 08S65480F62 | CER., 0.022 μ F | | |
| C41 | 08S65480F61 | CER., 0.01 μ F | | |
| C42 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C43 | 23T43247F13 | ELY., 47 μ F/10V | | |
| C44 | 08S65480F58 | CER., 5600pF | | |
| C45 | 23T43247F01 | ELY., 0.1 μ F/50V | | |

Notes : ● : For 7179M model only, ▲ : For 7179L model only, Others : Both models common.

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | C46 | 08T44481F03 | PP., 390pF | | |
| | C47 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| | C48 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| | C49 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| | C50 | 08S65480F62 | CER., 0.022 μ F | | |
| | C51 | 08S65480F62 | CER., 0.022 μ F | | |
| | C52 | 08S65480F62 | CER., 0.022 μ F | | |
| | C53 | 08S65480F62 | CER., 0.022 μ F | | |
| | C54 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| | C55 | 08S65480F55 | CER., 3300pF | | |
| | C56 | 08S65480F61 | CER., 0.01 μ F | | |
| | C57 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| | C58 | 08T42629F68 | MYL., 0.012 μ F | | |
| | C59 | 23T43247F03 | ELY., 0.33 μ F/50V | | |
| | C60 | 08T44979P08 | CER., 0.01 μ F | | |
| | C61 | 08T44979P08 | CER., 0.01 μ F | | |
| | C62 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| | C63 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| | C65 | 08T44979P11 | CER., 0.033 μ F | | |
| | **Resistors** | | | | |
| | VR1 | 18T42748F22 | Variable 330k ohm | | |
| | VR2 | 18T42748F16 | Variable 33k ohm | | |
| | VR3 | 18T42748F13 | Variable 10k ohm | | |
| | VR4 | 18T42748F19 | Variable 100k ohm | | |
| | VR5 | 18T42748F09 | Variable 2.2k ohm | | |
| ●<br>▲ | Main P. C. Board<br>(For 7179M and 7179L models only.) | | | | |
| | **IC's** | | | | |
| | IC303 | 51T62339F01 | LA4445 | | |
| | IC601 | 51T93836F01 | 93836F01 | | |
| | IC602 | 51T47739F01 | TC4066BP | | |
| | IC603 | 51T47739F01 | TC4066BP | | |
| | **Transistors** | | | | |
| | Q5 | 48T62540F05 | UN1215 | | |
| | Q6 | 48T62963F03 | DTC124 | | |
| | Q103 | 48T82763F30 | DTC343TL | | |
| | Q104 | 48T82763F30 | DTC343TL | | |
| | Q106 | 48T62963F03 | DTC124 | | |
| | Q303 | 48T62963F02 | DTC114 | | |
| | Q304 | 48T57337F01 | 2SD1330 | | |
| | Q305 | 48T62963F02 | DTC114 | | |
| | Q306 | 48T57337F01 | 2SD1330 | | |
| ● | Q307 | 48T57337F01 | 2SD1330 | | |

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| ● | Q308 | 48T57337F01 | 2SD1330 | | |
| ● | Q309 | 48T57337F01 | 2SD1330 | | |
| ● | Q310 | 48T57337F01 | 2SD1330 | | |
| | Q601 | 48T42182U01 | 2SD661 | | |
| | Q602 | 48T42182U01 | 2SD661 | | |
| | Q603 | 48T62963F03 | DTC124 | | |
| ● | Q604 | 48T62540F05 | UN1215 | | |
| ▲ | Q605 | 48T62540F05 | UN1215 | | |
| | Q631 | 48T62962F02 | DTA114 | | |
| | Q632 | 48T62962F03 | DTA124 | | |
| | Q633 | 48T62963F03 | DTC124 | | |
| | Q660 | 48T62540F05 | UN1215 | | |
| | Q801 | 48S40627U04 | 2SD636 | | |
| | Q802 | 48T52549F02 | 2SD973A | | |
| | Q803 | 48S42455F03 | 2SD638 | | |
| | Q804 | 48S42455F03 | 2SD638 | | |
| | Q805 | 48T62540F05 | UN1215 | | |
| | Q806 | 48T62540F05 | UN1215 | | |
| ● | Q807 | 48S42455F03 | 2SD638 | | |
| | **Diodes/Surge Protector** | | | | |
| | D8 | 48T44813F01 | MA165TA | | |
| | D9 | 48T44813F01 | MA165TA | | |
| | D80 | 48T44813F01 | MA165TA | | |
| | D81 | 48T44813F01 | MA165TA | | |
| | D82 | 48T44813F01 | MA165TA | | |
| | D83 | 48T44813F01 | MA165TA | | |
| ● | D602 | 48T44813F01 | MA165TA | | |
| | D603 | 48T44813F01 | MA165TA | | |
| | D604 | 48T44813F01 | MA165TA | | |
| | D605 | 48T44813F01 | MA165TA | | |
| | D606 | 48T44813F01 | MA165TA | | |
| | D607 | 48T44813F01 | MA165TA | | |
| | D608 | 48T44813F01 | MA165TA | | |
| | D609 | 48T44813F01 | MA165TA | | |
| | D610 | 48T44813F01 | MA165TA | | |
| | D611 | 48T44813F01 | MA165TA | | |
| | D612 | 48T44813F01 | MA165TA | | |
| | D613 | 48T44813F01 | MA165TA | | |
| | D614 | 48T44813F01 | MA165TA | | |
| | D616 | 48T44813F01 | MA165TA | | |
| | D618 | 48T44813F01 | MA165TA | | |
| | D622 | 48T44813F01 | MA165TA | | |
| | D623 | 48T44813F01 | MA165TA | | |
| | D624 | 48T44813F01 | MA165TA | | |
| | D625 | 48T44813F01 | MA165TA | | |
| | D631 | 48T44813F01 | MA165TA | | |
| | D632 | 48T44813F01 | MA165TA | | |
| | D633 | 48T44813F01 | MA165TA | | |
| | D638 | 48T44813F01 | MA165TA | | |
| | D801 | 48C40235G02 | 10E2 | | |

Notes : ● : For 7179M model only, ▲ : For 7179L model only, Others : Both models common.

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | D803 | 48C40235G02 | 10E2 | | |
| | D804 | 48C40235G02 | 10E2 | | |
| | D806 | 48T44813F01 | MA165TA | | |
| | ZD302 | 48T68697F26 | Zener, HZS6.8EB1 | | |
| | ZD601 | 48T68697F35 | Zener, HZS9.1EB1 | | |
| | ZD631 | 48T68697F16 | Zener, HZS4.7EB3 | | |
| | ZD632 | 48T68697F17 | Zener, HZS5.1EB1 | | |
| | ZD801 | 48T83128F08 | Zener, HZS6C2L | | |
| | ZD802 | 48T91071F10 | Zener, HZS5ALL | | |
| | ZD803 | 48T68697F43 | Zener, HZS11EB2 | | |
| | ZD804 | 48T68697F37 | Zener, HZS9.1EB3 | | |
| | ZD805 | 48T52741F25 | Zener, HZ9C−1L | | |
| ● | ZD806 | 48T68697F37 | Zener, HZS9.1EB3 | | |
| | ZD807 | 48T91071F09 | Zener, HZS4CLL | | |
| | DSP1 | 48T70875F02 | Surge Protector,<br>DSP−201M | | |
| Coils | | | | | |
| | L1 | 24T50508F02 | Inductor 0.22 μ H | | |
| | L10 | 24T50508F06 | Inductor 0.47 μ H | | |
| | L801 | 24T58149F02 | Inductor 1.2mH | | |
| | L802 | 25C40894G10 | Choke, Filter | | |
| Crystal／Filters | | | | | |
| | X601 | 48T55073F01 | 4.5MHz | | |
| | CF1 | 91T80084F01 | CER., Filter<br>1070MS10FAL | | |
| | CF2 | 91T80084F01 | CER., Filter<br>1070MS10FAL | | |
| Capacitors | | | | | |
| | C1 | 08S65480F25 | CER., 33pF | | |
| | C2 | 08S65480F62 | CER., 0.022 μ F | | |
| | C3 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C64 | 23T43247F08 | ELY., 4.7 μ F／25V | | |
| | C80 | 08S65480F61 | CER., 0.01 μ F | | |
| | C81 | 08T44979P12 | CER., 0.047 μ F | | |
| | C82 | 23T43247F02 | ELY., 0.22 μ F／50V | | |
| | C83 | 23S57422F08 | ELY., 4.7 μ F／25V | | |
| | C84 | 23S57422F08 | ELY., 4.7 μ F／25V | | |
| | C85 | 23T43247F09 | ELY., 10 μ F／16V | | |
| | C87 | 08S65480F37 | CER., 100pF | | |
| | C102 | 23T43247F08 | ELY., 4.7 μ F／25V | | |
| | C103 | 23T43247F08 | ELY., 4.7 μ F／25V | | |
| | C104 | 23T43247F09 | ELY., 10 μ F／16V | | |
| | C105 | 23T43247F09 | ELY., 10 μ F／16V | | |

| | Symbol No. | Part No. | Description | | |
|---|---|---|---|---|---|
| | C107 | 23T43247F05 | ELY., 1 μ F／50V | | |
| | C108 | 23T73861F05 | ELY., 47 μ F／16V | | |
| | C320 | 23T68328F03 | ELY., 100 μ F／10V | | |
| ● | C321 | 08T42629F73 | MYL., 0.033 μ F | | |
| ▲ | C321 | 23T43247F01 | ELY., 0.1 μ F／50V | | |
| ● | C322 | 08T42629F73 | MYL., 0.033 μ F | | |
| ▲ | C322 | 23T43247F01 | ELY., 0.1 μ F／50V | | |
| | C323 | 23T43247F11 | ELY., 33 μ F／10V | | |
| | C351 | 23T43247F08 | ELY., 4.7 μ F／25V | | |
| | C352 | 23T43247F08 | ELY., 4.7 μ F／25V | | |
| | C353 | 08S65480F49 | CER., 1000pF | | |
| | C354 | 08S65480F49 | CER., 1000pF | | |
| | C355 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C356 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C357 | 08T42629F31 | MYL., 0.15 μ F | | |
| | C358 | 08T42629F31 | MYL., 0.15 μ F | | |
| | C359 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C360 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C361 | 23C42170G29 | ELY., 1000 μ F／10V | | |
| | C362 | 23C42170G29 | ELY., 1000 μ F／10V | | |
| | C363 | 23T68328F17 | ELY., 220 μ F／16V | | |
| | C364 | 23T51232F01 | ELY., 2200 μ F／16V | | |
| | C365 | 08S65480F63 | CER., 0.1 μ F | | |
| | C601 | 08S65480F61 | CER., 0.01 μ F | | |
| | C602 | 23T41366F41 | ELY., 2.2 μ F／50V<br>(BP) | | |
| | C603 | 23T43247F03 | ELY., 0.33 μ F／50V | | |
| | C604 | 08S65480F61 | CER., 0.01 μ F | | |
| | C605 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C606 | 08S65480F61 | CER., 0.01 μ F | | |
| | C607 | 23T43247F09 | ELY., 10 μ F／16V | | |
| | C608 | 08S65480F21 | CER., 22pF | | |
| | C609 | 08S65480F21 | CER., 22pF | | |
| ● | C617 | 23T43247F16 | ELY., 22 μ F／6.3V | | |
| ● | C618 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C631 | 23T41366F42 | ELY., 3.3 μ F／50V<br>(BP) | | |
| | C632 | 23T43247F09 | ELY., 10 μ F／16V | | |
| | C633 | 23T43247F09 | ELY., 10 μ F／16V | | |
| | C635 | 23T43247F09 | ELY., 10 μ F／16V | | |
| | C801 | 23C42170G30 | ELY., 470 μ F／16V | | |
| | C802 | 23T43247F05 | ELY., 1 μ F／50V | | |
| | C803 | 23T43247F19 | ELY., 220 μ F／6.3V | | |
| | C805 | 23T68328F03 | ELY., 100 μ F／10V | | |
| | C806 | 23T68328F03 | ELY., 100 μ F／10V | | |
| ● | C807 | 23T68328F02 | ELY., 47 μ F／10V | | |
| | C808 | 08T74293F62 | CER., 0.022 μ F | | |

Notes : ● : For 7179M model only, ▲ : For 7179L model only, Others : Both models common.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Resistors | | | | |
| ● R301 | 06T93554F02 | Block 4 x 2.2k ohm | | |
| ● VR302 | 18T94491F01 | Volume, Control<br>100k ohm | | |
| ▲ VR302 | 18T94491F02 | Volume, Control<br>20k ohm | | |
| ● Tone P. C. Board<br>▲ (For 7179M and 7179L models only.) | | | | |
| IC/Transistors/Diodes | | | | |
| IC301 | 51S43471U02 | μ PC4558C | | |
| Q301 | 48S40627U04 | TR., 2SD636 | | |
| Q302 | 48S40627U04 | TR., 2SD636 | | |
| Q311 | 48T57337F03 | TR., 2SD1330 | | |
| Q312 | 48T57337F03 | TR., 2SD1330 | | |
| D301 | 48T44813F01 | Diode, MA165TA | | |
| D302 | 48T44813F01 | Diode, MA165TA | | |
| ZD301 | 48T68697F11 | Diode, Zener,<br>HZS4.3EB1 | | |
| Capacitors | | | | |
| C301 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C302 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C303 | 08T42629F68 | MYL., 0.012 μ F | | |
| C304 | 08T42629F68 | MYL., 0.012 μ F | | |
| C305 | 08T42629F74 | MYL., 0.039 μ F | | |
| C306 | 08T42629F74 | MYL., 0.039 μ F | | |
| C307 | 08T42629F74 | MYL., 0.039 μ F | | |
| C308 | 08T42629F74 | MYL., 0.039 μ F | | |
| C309 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C310 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C311 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C312 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C313 | 08S65480F41 | CER., 220pF | | |
| C314 | 08S65480F41 | CER., 220pF | | |
| C315 | 23C44780P23 | ELY., 220 μ F/16V | | |
| C316 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C317 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C318 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C319 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C324 | 23T43247F22 | ELY., 100 μ F/16V | | |
| C326 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C327 | 23T43247F05 | ELY., 1 μ F/50V | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| ● SDK P. C. Board<br>(For 7179M model only.) | | | | |
| IC's/Transistors | | | | |
| IC604 | 51T82523F01 | TDA1579 | | |
| IC605 | 51T83062F01 | NJM2902N | | |
| IC606 | 51T47739F01 | TC4066BP | | |
| Q651 | 48T81101F02 | TR., 2SC1815 | | |
| Q652 | 48T51118F02 | TR., 2SA1015 | | |
| Q653 | 48T81101F02 | TR., 2SC1815 | | |
| Q654 | 48T81101F02 | TR., 2SC1815 | | |
| Q655 | 48T81101F02 | TR., 2SC1815 | | |
| Q656 | 48T81101F02 | TR., 2SC1815 | | |
| Q657 | 48T81101F02 | TR., 2SC1815 | | |
| Q658 | 48S40627U04 | TR., 2SD636 | | |
| Q659 | 48T81101F02 | TR., 2SC1815 | | |
| Diodes/Coil | | | | |
| D651 | 48T44813F01 | MA165TA | | |
| D652 | 48T44813F01 | MA165TA | | |
| D653 | 48T44813F01 | MA165TA | | |
| D654 | 48T44813F01 | MA165TA | | |
| D655 | 48T44813F01 | MA165TA | | |
| D656 | 48T44813F01 | MA165TA | | |
| D657 | 48T44813F01 | MA165TA | | |
| D658 | 48T44813F01 | MA165TA | | |
| ZD602 | 48T68697F23 | Zener, HZS6.2EB1 | | |
| L601 | 24T84175F02 | Coil, SK (57kHz) | | |
| Capacitors/Resistor | | | | |
| C610 | 08T42629F79 | MYL., 0.1 μ F | | |
| C611 | 08T42629F75 | MYL., 0.047 μ F | | |
| C612 | 23S41198U26 | ELY., 47 μ F/10V | | |
| C613 | 08S65480F61 | CER., 0.01 μ F | | |
| C614 | 08S65480F61 | CER., 0.01 μ F | | |
| C615 | 08S65480F31 | CER., 56pF | | |
| C616 | 23T43247F11 | ELY., 33 μ F/10V | | |
| C651 | 08T42629F79 | MYL., 0.1 μ F | | |
| C652 | 08T42629F79 | MYL., 0.1 μ F | | |
| C653 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C654 | 08T42629F77 | MYL., 0.068 μ F | | |
| C655 | 08T42629F77 | MYL., 0.068 μ F | | |
| C656 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C657 | 08T42629F75 | MYL., 0.047 μ F | | |
| C658 | 08T42629F73 | MYL., 0.033 μ F | | |
| C659 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C660 | 08T44979P11 | CER., 0.033 μ F | | |
| C661 | 23T43247F09 | ELY., 10 μ F/16V | | |
| VR601 | 18T42748F02 | RES., Variable,<br>150 ohm | | |

Notes : ● : For 7179M model only, ▲ : For 7179L model only,
Main P. C. Board and Tone P. C. Board for 7179M and 7179L models only,
SDK P. C. Board for 7179M model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| ▲ Switching P. C. Board (For 7179L model only.) | | | | |
| IC/Transistors/Diode | | | | |
| IC606 | 51T47739F01 | TC4066BP | | |
| Q657 | 48T62963F03 | TR., DTC124 | | |
| Q658 | 48T62963F03 | TR., DTC124 | | |
| ZD602 | 48T68697F23 | Diode, Zener, HZS6.2EB1 | | |
| ■ Tuner P. C. Board (For 7179E model only.) | | | | |
| IC's | | | | |
| IC1 | 51T94495F01 | LA1145 | | |
| IC2 | 51T94316F01 | AN7465S | | |
| IC3 | 51T94547F01 | LA1137 | | |
| Transistors | | | | |
| Q2 | 48T62963F03 | DTC124 | | |
| Q3 | 48T62963F03 | DTC124 | | |
| Q4 | 48S43525F02 | 2SC1815 | | |
| Q5 | 48S43525F02 | 2SC1815 | | |
| Q6 | 48T95129F01 | FET, 2SK715 | | |
| Q8 | 48T62963F03 | DTC124 | | |
| Diodes | | | | |
| D1 | 48T51087F01 | Varistor, KB-265C4 | | |
| D3 | 48T44813F01 | MA165TA | | |
| D5 | 48T44813F01 | MA165TA | | |
| D8 | 48T44813F01 | MA165TA | | |
| D9 | 48T44813F02 | MA165 | | |
| VD1 | 48T80759F02 | Varactor, KV1235Z | | |
| VD2 | 48T80759F02 | Varactor, KV1235Z | | |
| VD3 | 48T80759F02 | Varactor, KV1235Z | | |
| Transformers | | | | |
| T1 | 24T58377F01 | Inductor FM (WHT) | | |
| T2 | 24T58377F02 | FM 7KL (BLU) | | |
| T3 | 24T95072F05 | AM OSC (RED) | | |
| T4 | 24T95072F04 | IFT-2 (BLK) | | |
| T5 | 24T95072F03 | IFT-1 (YEL) | | |
| T6 | 24T95072F02 | AM RF (GRN) | | |
| T7 | 24T95072F01 | AM ANT (WHT) | | |
| T8 | 24T95232F01 | Inductor (BLK) | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Filters | | | | |
| CF1 | 91T83724F01 | CER., 10.7MS2LK2-A | | |
| CF2 | 91T83724F01 | CER., 10.7MS2LK2-A | | |
| CF3 | 91T56243F01 | CER., 450H | | |
| CF4 | 91T60378F01 | CER., BFU450C4N | | |
| Capacitors | | | | |
| C4 | 08S65480F62 | CER., 0.022 μ F | | |
| C5 | 08S65480F38 | CER., 120pF | | |
| C6 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C7 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C8 | 08T44979P12 | CER., 0.047 μ F | | |
| C9 | 23T43247F21 | ELY., 100 μ F/10V | | |
| C10 | 08S65480F61 | CER., 0.01 μ F | | |
| C11 | 23T43247F04 | ELY., 0.47 μ F/50V | | |
| C12 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C13 | 08S65480F55 | CER., 3300pF | | |
| C14 | 08S65480F61 | CER., 0.01 μ F | | |
| C15 | 08T44979P12 | CER., 0.047 μ F | | |
| C16 | 08T44979P12 | CER., 0.047 μ F | | |
| C17 | 08S65480F63 | CER., 0.1 μ F | | |
| C18 | 08S65480F55 | CER., 3300pF | | |
| C19 | 08S65480F61 | CER., 0.01 μ F | | |
| C20 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C21 | 23T43247F13 | ELY., 47 μ F/10V | | |
| C22 | 08S65480F59 | CER., 6800pF | | |
| C23 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C24 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C25 | 08S65480F62 | CER., 0.022 μ F | | |
| C26 | 08T44481F03 | PP., 390pF | | |
| C27 | 23T43247F01 | ELY., 0.1 μ F/50V | | |
| C28 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C29 | 23T43247F03 | ELY., 0.33 μ F/50V | | |
| C30 | 08T42629F73 | MYL., 0.033 μ F | | |
| C31 | 08T42629F73 | MYL., 0.033 μ F | | |
| C32 | 23T43247F02 | ELY., 0.22 μ F/50V | | |
| C33 | 08S65480F61 | CER., 0.01 μ F | | |
| C34 | 23T43247F09 | ELY., 10 μ F/16V | | |
| C36 | 08T44481F04 | PP., 430pF | | |
| C37 | 08S65480F62 | CER., 0.022 μ F | | |
| C38 | 23T43247F21 | ELY., 100 μ F/10V | | |
| C39 | 08T44979P12 | CER., 0.047 μ F | | |
| C40 | 23T43247F04 | ELY., 0.47 μ F/50V | | |
| C41 | 23T43247F07 | ELY., 3.3 μ F/25V | | |
| C42 | 23T43247F08 | ELY., 4.7 μ F/25V | | |
| C43 | 08T50579F09 | T.F., 0.047 μ F | | |
| C44 | 23T43247F08 | ELY., 4.7 μ F/25V | | |

Notes : ■ : For 7179E model only, ▲ : For 7179L model only,
Switching P. C. Board for 7179L model only,
Tuner P. C. Board for 7179E model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| C45 | 08S65480F62 | CER., 0.022 μ F | | |
| C46 | 23T43247F04 | ELY., 0.47 μ F/50V | | |
| C47 | 08S65480F62 | CER., 0.022 μ F | | |
| C48 | 08S65480F63 | CER., 0.1 μ F | | |
| C49 | 21C45322G32 | CER., 0.022 μ F | | |
| C50 | 08S65480F62 | CER., 0.022 μ F | | |
| C51 | 23T43247F05 | ELY., 1 μ F/50V | | |
| C52 | 23T43247F17 | ELY., 47 μ F/6.3V | | |
| C53 | 21C45322G32 | CER., 0.022 μ F | | |
| VC1 | 20T47503F02 | Trimmer, TZ03 (RED) | | |
| VC2 | 20T47503F02 | Trimmer, TZ03 (RED) | | |
| VC3 | 20T47503F02 | Trimmer, TZ03 (RED) | | |

Resistors

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| VR1 | 18T42748F12 | Volume, Solid, 6.8k ohm | | |
| VR2 | 18T42748F16 | Variable, 33k ohmB | | |
| VR3 | 18T42748F11 | Variable, 4.7k ohmB | | |
| VR4 | 18T42748F09 | Variable, 2.2k ohm | | |

## ■ Main P. C. Board

IC's

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| IC201 | 51S43471U02 | μ PC4558C | | |
| IC202 | 51T62339F01 | LA4445 | | |
| IC601 | 51T92808F01 | 92808F01 | | |
| IC602 | 51T47739F01 | TC4066BP | | |
| IC603 | 51T47739F01 | TC4066BP | | |

Transistors

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Q1 | 48T62963F10 | DTC114T | | |
| Q201 | 48S40627U01 | 2SD636 | | |
| Q202 | 48S40627U01 | 2SD636 | | |
| Q203 | 48T62963F02 | DTC114 | | |
| Q204 | 48T62963F02 | DTC114 | | |
| Q205 | 48T82763F31 | DTC363TL | | |
| Q206 | 48T82763F31 | DTC363TL | | |
| Q207 | 48T82763F31 | DTC363TL | | |
| Q208 | 48T82763F31 | DTC363TL | | |
| Q601 | 48T62963F03 | DTC124 | | |
| Q602 | 48T62963F10 | DTC114T | | |
| Q603 | 48T62963F10 | DTC114T | | |
| Q606 | 48T42182U01 | 2SD661 | | |
| Q607 | 48T42182U01 | 2SD661 | | |
| Q608 | 48T62963F03 | DTC124 | | |
| Q609 | 48T62963F03 | DTC124 | | |
| Q610 | 48T62963F03 | DTC124 | | |
| Q611 | 48T62963F03 | DTC124 | | |
| Q612 | 48T62962F03 | DTA124 | | |
| Q613 | 48T62962F02 | DTA114 | | |
| Q801 | 48T52549F01 | 2SD973A | | |
| Q802 | 48S40627U01 | 2SD636 | | |
| Q803 | 48T62963F03 | DTC124 | | |
| Q804 | 48S40591U01 | 2SB641 | | |
| Q805 | 48T52549F01 | 2SD973A | | |
| Q806 | 48T62963F03 | DTC124 | | |
| Q807 | 48S42455F01 | 2SD638 | | |
| Q808 | 48T62963F03 | DTC124 | | |

Diodes/Surge Protector

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| D6 | 48T44813F01 | MA165TA | | |
| D7 | 48T44813F01 | MA165TA | | |
| D201 | 48T44813F01 | MA165TA | | |
| D202 | 48T44813F01 | MA165TA | | |
| D203 | 48T43189F01 | 1S1555 | | |
| D204 | 48T44813F01 | MA165TA | | |
| D205 | 48T44813F01 | MA165TA | | |
| D206 | 48T44813F01 | MA165TA | | |
| D207 | 48T44813F01 | MA165TA | | |
| D601 | 48T44813F01 | MA165TA | | |
| D602 | 48T44813F01 | MA165TA | | |
| D603 | 48T43189F01 | 1S1555 | | |
| D604 | 48T44813F01 | MA165TA | | |
| D605 | 48T43189F01 | 1S1555 | | |
| D609 | 48T43189F01 | 1S1555 | | |
| D610 | 48T43189F01 | 1S1555 | | |
| D613 | 48S134816 | 1S1555 | | |
| D615 | 48T44813F01 | MA165TA | | |
| D616 | 48T44813F01 | MA165TA | | |
| D617 | 48T44813F01 | MA165TA | | |
| D618 | 48T44813F01 | MA165TA | | |
| D619 | 48T43189F01 | 1S1555 | | |
| D620 | 48T43189F01 | 1S1555 | | |
| D621 | 48T43189F01 | 1S1555 | | |
| D622 | 48T43189F01 | 1S1555 | | |
| D623 | 48T44813F02 | MA165 | | |
| D624 | 48T44813F01 | MA165TA | | |
| D625 | 48T44813F01 | MA165TA | | |
| D626 | 48T44813F01 | MA165TA | | |
| D627 | 48T44813F01 | MA165TA | | |
| D629 | 48T44813F01 | MA165TA | | |
| D630 | 48T44813F01 | MA165TA | | |
| D801 | 48C40235G02 | 10E2 | | |
| D802 | 48C40235G02 | 10E2 | | |
| D803 | 48C40235G02 | 10E2 | | |

Notes : ■ : For 7179E model only.
Tuner P. C. Board and Main P. C. Board for 7179E model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| D805 | 48T44813F01 | MA165TA | | |
| D806 | 48T44813F01 | MA165TA | | |
| ZD202 | 48T68697F31 | Zener, HZS7.5EB3 | | |
| ZD203 | 48T68697F20 | Zener, HZS5.6EB1 | | |
| ZD204 | 48T83128F06 | Zener, HZS6B3L | | |
| ZD601 | 48T68697F37 | Zener, HZS9.1EB3 | | |
| ZD602 | 48T68697F17 | Zener, HZS5.1EB1 | | |
| ZD605 | 48T68697F16 | Zener, HZS4.7EB3 | | |
| ZD801 | 48T68697F42 | Zener, HZS11EB1 | | |
| ZD802 | 48T83128F06 | Zener, HZS6B3L | | |
| ZD803 | 48T91071F10 | Zener, HZS5ALL | | |
| ZD804 | 48T68697F37 | Zener, HZS9.1EB3 | | |
| ZD805 | 48T83128F27 | Zener, HZS9C3LL | | |
| ZD806 | 48T91071F09 | Zener, HZS4CLL | | |
| DSP1 | 48T81909F01 | Surge Protector,<br>DSP−201M | | |
| Coils/Crystal | | | | |
| L2 | 24T50508F18 | Inductor, 4.7 µ H | | |
| L801 | 25C40894G11 | Choke, Trans 1.2mH | | |
| L802 | 24T58149F02 | Inductor, 1.2mH | | |
| X601 | 48T55073F01 | Crystal, 4.5MHz | | |
| Capacitors | | | | |
| C1 | 23T43247F10 | ELY., 22 µ F/16V | | |
| C2 | 23T43247F02 | ELY., 0.22 µ F/50V | | |
| C3 | 08S65480F37 | CER., 100pF | | |
| C203 | 23T68328F55 | ELY., 4.7 µ F/50V | | |
| C204 | 23T68328F55 | ELY., 4.7 µ F/50V | | |
| C205 | 08T57705F68 | MYL., 0.012 µ F | | |
| C206 | 08T57705F74 | MYL., 0.039 µ F | | |
| C207 | 08T57705F68 | MYL., 0.012 µ F | | |
| C208 | 08T57705F74 | MYL., 0.039 µ F | | |
| C209 | 08T57705F74 | MYL., 0.039 µ F | | |
| C210 | 23T43247F02 | ELY., 0.22 µ F/50V | | |
| C211 | 23T43247F08 | ELY., 4.7 µ F/25V | | |
| C212 | 08T57705F74 | MYL., 0.039 µ F | | |
| C213 | 23T43247F02 | ELY., 0.22 µ F/50V | | |
| C214 | 23T43247F08 | ELY., 4.7 µ F/25V | | |
| C215 | 08S65480F41 | CER., 220pF | | |
| C216 | 08S65480F41 | CER., 220pF | | |
| C217 | 23T73861F09 | ELY., 100 µ F/16V | | |
| C218 | 23T43247F09 | ELY., 10 µ F/16V | | |
| C219 | 23T61512F25 | ELY., 1 µ F/50V | | |
| C220 | 23T43247F01 | ELY., 0.1 µ F/50V | | |
| C221 | 23T61512F25 | ELY., 1 µ F/50V | | |
| C222 | 23T43247F01 | ELY., 0.1 µ F/50V | | |
| C223 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C224 | 23T61512F26 | ELY., 2.2 µ F/50V | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| C225 | 23T43247F10 | ELY., 22 µ F/16V | | |
| C226 | 23T61512F26 | ELY., 2.2 µ F/50V | | |
| C227 | 23T43247F10 | ELY., 22 µ F/16V | | |
| C228 | 23T73861F09 | ELY., 100 µ F/16V | | |
| C229 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C230 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C231 | 23T43247F08 | ELY., 4.7 µ F/25V | | |
| C232 | 08S65480F49 | CER., 1000pF | | |
| C233 | 23T43247F18 | ELY., 330 µ F/6.3V | | |
| C234 | 23T68328F03 | ELY., 100 µ F/10V | | |
| C235 | 23T68328F04 | ELY., 220 µ F/10V | | |
| C236 | 23C42170G29 | ELY., 1000 µ F/10V | | |
| C237 | 08T90316F31 | T.F., 0.15 µ F | | |
| C238 | 23T43247F08 | ELY., 4.7 µ F/25V | | |
| C239 | 08S65480F49 | CER., 1000pF | | |
| C240 | 23T43247F18 | ELY., 330 µ F/6.3V | | |
| C241 | 23T51232F01 | ELY., 2200 µ F/16V | | |
| C242 | 08T50579F13 | T.F., 0.1 µ F | | |
| C243 | 23T68328F03 | ELY., 100 µ F/10V | | |
| C244 | 23C42170G29 | ELY., 1000 µ F/10V | | |
| C245 | 08T90316F31 | T.F., 0.15 µ F | | |
| C246 | 23T43247F11 | ELY., 33 µ F/10V | | |
| C601 | 23T68328F15 | ELY., 47 µ F/16V | | |
| C602 | 23T61512F13 | ELY., 4.7 µ F/25V | | |
| C603 | 23T61512F13 | ELY., 4.7 µ F/25V | | |
| C604 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C605 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C606 | 23T61512F25 | ELY., 1 µ F/50V | | |
| C609 | 08S65480F62 | CER., 0.022 µ F | | |
| C611 | 23T41366F40 | ELY., (B.P.)<br>1 µ F/50V | | |
| C612 | 08S65480F61 | CER., 0.01 µ F | | |
| C613 | 23T68328F03 | ELY., 100 µ F/10V | | |
| C614 | 08S65480F61 | CER., 0.01 µ F | | |
| C615 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C616 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C618 | 08T42629F28 | MYL., 0.082 µ F | | |
| C619 | 23T61512F08 | ELY., 10 µ F/16V | | |
| C621 | 08S65480F62 | CER., 0.022 µ F | | |
| C622 | 23T82372F10 | ELY., (B.P.)<br>3.3 µ F/25V | | |
| C623 | 23T68328F15 | ELY., 47 µ F/16V | | |
| C668 | 08T44979P13 | CER., 0.068 µ F | | |
| C801 | 23T68328F19 | ELY., 470 µ F/16V | | |
| C802 | 23T68328F52 | ELY., 1 µ F/50V | | |
| C803 | 23T68328F04 | ELY., 220 µ F/10V | | |
| C804 | 08S65480F62 | CER., 0.022 µ F | | |
| C805 | 08T55260F21 | CER., 22pF | | |
| C806 | 08T55260F21 | CER., 22pF | | |
| C807 | 23T68328F03 | ELY., 100 µ F/10V | | |
| C808 | 23T43247F11 | ELY., 33 µ F/10V | | |
| C809 | 08S65480F61 | CER., 0.01 µ F | | |

Notes : For 7179E model only.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Volume Control | | | | |
| ■ VR203 | 18T94491F06 | Volume Control,<br>[S801 (POWER),<br>(FADER/BALANCE)] | | |
| GT Control P. C. Board | | | | |
| IC/Transistor | | | | |
| IC1501 | 51T64606F01 | IC, TA7705F | | |
| Q1501 | 48T62967F03 | CP., DTC124K | | |
| Diodes | | | | |
| D1501 | 48T44813F01 | MA165TA | | |
| D1504 | 48C40235G01 | 10E2 | | |
| Capacitors | | | | |
| C1501 | 08S53332F33 | CP., 680pF | | |
| C1502 | 08S53332F33 | CP., 680pF | | |
| C1503 | 08S53332F33 | CP., 680pF | | |
| C1504 | 08S53332F33 | CP., 680pF | | |
| C1505 | 23S57422F14 | ELY., 47 µ F/6.3V | | |
| C1506 | 23S61523F07 | ELY., 47 µ F/6.3V | | |
| C1507 | 23S61523F12 | ELY., 10 µ F/16V | | |
| C1508 | 08S53332F48 | CP., 0.012 µ F | | |
| C1509 | 08S53332F48 | CP., 0.012 µ F | | |
| C1510 | 23S61523F17 | ELY., 47 µ F/25V | | |
| C1511 | 23T82482F02 | ELY., 100 µ F/16V | | |
| C1512 | 23S61523F12 | ELY., 10 µ F/16V | | |
| C1514 | 23T82482F02 | ELY., 100 µ F/16V | | |
| C1515 | 08S53332F41 | CP., 3300pF | | |
| C1516 | 08S53332F41 | CP., 3300pF | | |
| Resistors (All resistors are chip 1/8W±5% unless otherwise noted.) | | | | |
| R1501 | 06S53330F32 | 130 ohm | | |
| R1502 | 06S53330F32 | 130 ohm | | |
| R1503 | 06S53331F14 | 330k ohm | | |
| R1504 | 06S53331F14 | 330k ohm | | |
| R1505 | 06S53330F81 | 15k ohm | | |
| R1506 | 06S53330F81 | 15k ohm | | |
| R1507 | 06S53330F79 | 12k ohm | | |
| R1508 | 06S53330F79 | 12k ohm | | |
| R1509 | 06S53330F89 | 33k ohm | | |
| R1510 | 06S53330F94 | 51k ohm | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| R1511 | 06S53331F02 | 100k ohm | | |
| R1512 | 06S53330F89 | 33k ohm | | |
| R1513 | 06S53331F01 | 91k ohm | | |
| R1514 | 06S53330F85 | 22k ohm | | |
| R1515 | 06S53330F29 | 100 ohm | | |
| R1521 | 06S81094F09 | M.F.,<br>4.7k ohm 1/2W | | |
| R1523 | 06S53330F85 | 22k ohm | | |
| R1524 | 06S53330F53 | 1k ohm | | |
| R1526 | 06S53330F89 | 33k ohm | | |
| R1527 | 06S53330F29 | 100 ohm | | |
| R1528 | 06S64995F85 | 22k ohm | | |
| Display P. C. Board | | | | |
| LED's | | | | |
| LD401 | 48T51833F03 | BG4524K (GRN) | | |
| LD402 | 48T51833F03 | BG4524K (GRN) | | |
| Switches | | | | |
| S401 | 40T70366F01 | Tact, KHL-10906<br>(BAND) | | |
| S402 | 40T70366F01 | Tact, KHL-10906<br>(ST) | | |
| S403 | 40T70366F01 | Tact, KHL-10906<br>(DX) | | |
| ■ S404 | 40T70366F01 | Tact, KHL-10906<br>(LOUD R. MONI) | | |
| ▲ S404 | 40T70366F01 | Tact, KHL-10906<br>(LOUD R. MONI) | | |
| ● S404 | 40T70366F01 | Tact, KHL-10906<br>(LOUD/SDK) | | |
| S405 | 40T70366F01 | Tact, KHL-10906<br>(M4) | | |
| S406 | 40T70366F01 | Tact, KHL-10906<br>(M3) | | |
| S407 | 40T70366F01 | Tact, KHL-10906<br>(M2) | | |
| S408 | 40T70366F01 | Tact, KHL-10906<br>(M1/MS) | | |
| S409 | 40T70366F01 | Tact, KHL-10906<br>(M6) | | |
| S410 | 40T70366F01 | Tact, KHL-10906<br>(M5) | | |
| S411 | 40T70366F01 | Tact, KHL-10906<br>(MEMO) | | |
| S412 | 40T70366F01 | Tact, KHL-10906<br>(DOWN) | | |
| S413 | 40T70366F01 | Tact, KHL-10906<br>(UP) | | |
| S414 | 40T70366F01 | Tact, KHL-10906<br>(SEEK) | | |

Notes : ● : For 7179M model only, ■ : For 7179E model only, ▲ : For 7179L model only, Others : Common.

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| Lamps | | | | |
| PL401 | 65T80294F05 | Pilot, 6V-65mA | | |
| PL402 | 65T80294F05 | Pilot, 6V-65mA | | |
| PL403 | 65T80294F05 | Pilot, 6V-65mA | | |
| PL404 | 65T95083F01 | Pilot, 6.7V-85mA | | |
| Resistors | | | | |
| ● R402 | 06T67581F22 | C.F., 150 ohm 1/2W | | |
| ▲ R402 | 06T67581F22 | C.F., 150 ohm 1/2W | | |
| R404 | 06T67581F15 | C.F., 39 ohm 1/2W | | |
| ■ VR201<br>■ VR202 | 18T93886F02 | Volume, Slide 20k ohm A x 2 (TREBLE/BASS) | | |
| ● VR401 | 18T93886F02 | Volume, 20k ohm A × 2 (TREBLE/BASS) | | |
| ▲ VR401 | 18T93886F02 | Volume, 20k ohm A × 2 (TREBLE/BASS) | | |
| Miscellaneous | | | | |
| ● BA801 | 60T91060F02 | Battery, Lit CR2032 | | |
| ▲ BA801 | 60T91060F02 | Battery, Lit CR2032 | | |
| ■ BA801 | 60T91060F03 | Battery, Lit CR2032 | | |
| ● E801 | 01T94841F01 | Assy., QRB Connector (Socket) | | |
| ▲ E801 | 01T94841F01 | Assy., QRB Connector (Socket) | | |
| ■ E801 | 01T95067F03 | Assy., QRB Connector (Socket) | | |
| HD1501 | 88T50997F01 | Head | | |
| ■ LCD401 | 65T94818F01 | LCD, Display | | |
| ▲ LCD401 | 65T64497F01 | LCD, Display (LU1410) | | |
| ● LCD401 | 65T64497F01 | LCD, Display (LU1410) | | |
| M1501 | 01V81200F64 | Assy., Motor | | |
| S1501 | 40T52216F01 | Switch, Micro | | |
| S1502 | 40T63432F01 | Switch, Slide | | |
| S1503 | 40T71025F03 | Switch, Detector | | |
| S1504 | 40T71025F01 | Switch, Detector | | |
| SD1501 | 01T80451F01 | Assy., Keep Solenoid | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|

Notes : ● : For 7179M model only, ■ : For 7179E model only, ▲ : For 7179L model only, Others : Common.

# Cabinet Assembly Parts List

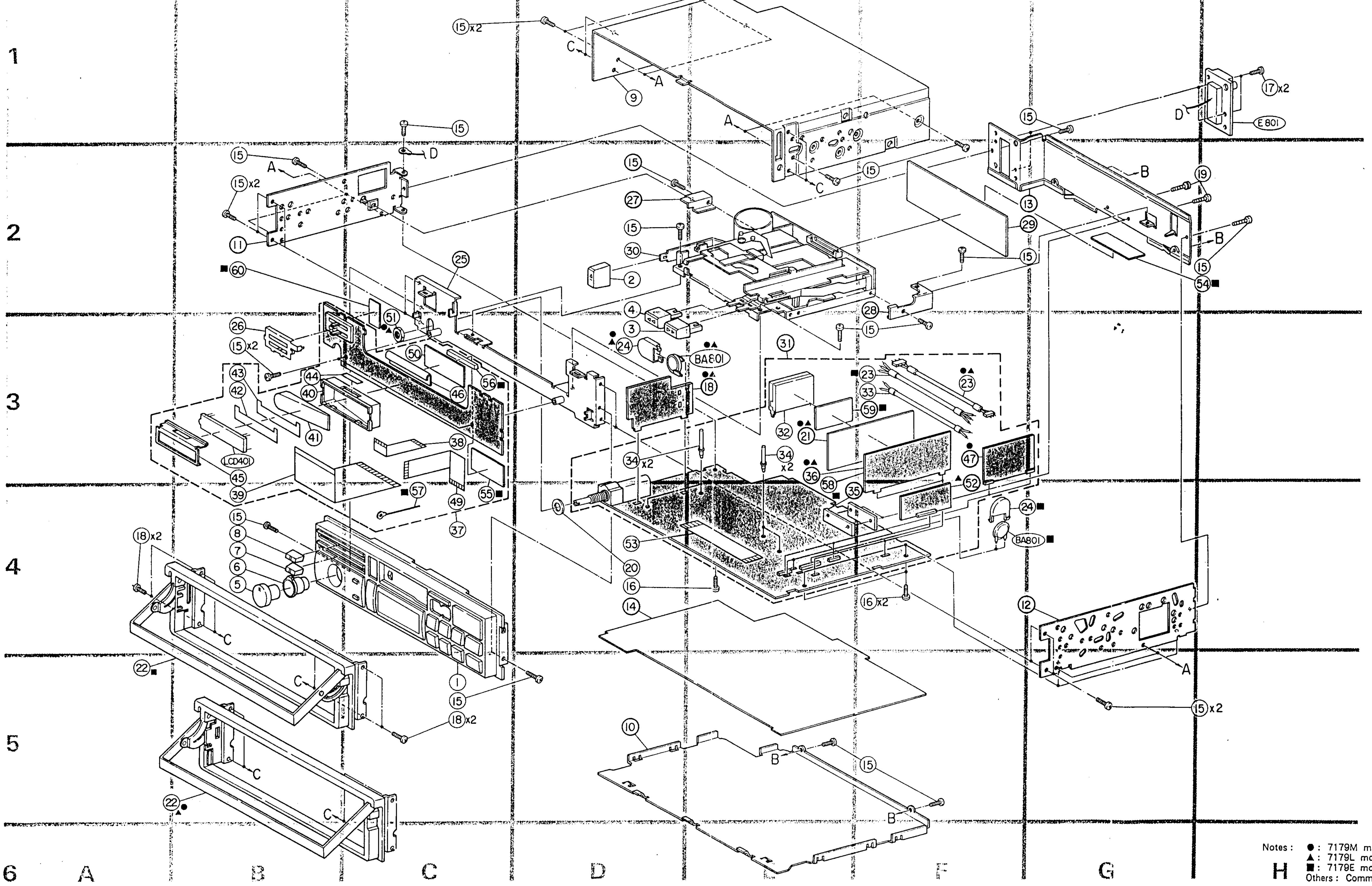
NOTE : The parts without part numbers are not supplied.

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| ● | 1 | 5-C | 13D94441F09 | Assy., Nosepiece | | |
| ■ | 1 | 5-C | 13D94441F07 | Assy., Nosepiece | | |
| ▲ | 1 | 5-C | 13D94441F08 | Assy., Nosepiece | | |
| | 2 | 2-D | 36B94059F01 | Knob, Eject | | |
| | 3 | 3-D | 36B94060F01 | Knob, FF | | |
| | 4 | 2-D | 36B94061F01 | Knob, REW | | |
| | 5 | 4-B | 36A94114F01 | Knob, Control (Front) | | |
| | 6 | 4-B | 36A94115F01 | Knob, Control (Back) | | |
| | 7 | 4-B | 36A94418F01 | Knob, Slide | | |
| | 8 | 4-B | 36A94418F02 | Knob, Slide (B) | | |
| | 9 | 1-D | 15C94345F01 | Cover, Top | | |
| | 15 | | 03S44205G07 | Screw, Pan (M2.6 × 5) | | |
| | 16 | | 03S44205G48 | Screw, Pan (M2.6 × 5) | | |
| | 17 | 1-H | 03S44205G29 | Screw, Pan (M2.6 × 6) | | |
| | 18 | | 03S44205G34 | Screw, Pan (M2.6 × 5) | | |
| | 19 | 2-G | 03D40014G08 | Screw, W/Washer (M2.6 × 8) | | |
| ● | 20 | 4-D | 04A42792J11 | Washer, Flat (M14) | | |
| ■ | 20 | 4-D | 04A40070G71 | Washer, Flat (M14) | | |
| ▲ | 20 | 4-D | 04A42792J11 | Washer, Flat (M14) | | |
| ● | 22 | 5-B | 07C82176F01 | Assy., Handle Bracket | | |
| ■ | 22 | 5-A | 07C10065W01 | Assy., Handle Bracket | | |
| ▲ | 22 | 5-B | 07C82176F01 | Assy., Handle Bracket | | |
| ● | 23 | 3-F | 01T94493F02 | Assy., Connector (3P) | | |
| ■ | 23 | 3-F | 01T95068F01 | Assy., Connector (3P) | | |
| ▲ | 23 | 3-F | 01T94493F02 | Assy., Connector (3P) | | |
| | 24 | | 15A84078F01 | Case, Battery | | |
| | 26 | 3-B | 07A96021F01 | Bracket, Shield (Volume) | | |
| | 30 | 2-D | 81D80483F08 | Deck, Cassette (GT75B01B) | | |
| ● | 32 | 3-E | 77T94489F01 | Tuner, Unit (FE1) | | |
| ■ | 32 | 3-E | 77T74537F03 | Tuner, F/E | | |
| ▲ | 32 | 3-E | 77T94489F01 | Tuner, Unit (FE1) | | |
| ■ | 33 | 3-F | 01T83932F02 | Assy., Shield Wire | | |
| ▲ | 33 | 3-F | 01T94494F01 | Assy., Shield Wire | | |
| ● | 33 | 3-F | 01T94494F01 | Assy., Shield Wire | | |
| | 34 | | 09T84840F01 | Lug, Style 18mm | | |

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| ● | 37 | 4-C | 01V93900F74 | Assy., Display P.C. Board | | |
| ■ | 37 | 4-C | 01V94400F42 | Assy., Display P. C. Board | | |
| ▲ | 37 | 4-C | 01V93900F74 | Assy., Display P.C. Board | | |
| ● | 38 | 3-C | 01T94498F01 | Wire, Parallel (8P) | | |
| ■ | 38 | 3-C | 01T95070F03 | Wire, Parallel (8P) | | |
| ▲ | 38 | 3-C | 01T94498F01 | Wire, Parallel (8P) | | |
| ● | 39 | 4-B | 01T94498F02 | Wire, Parallel (33P) | | |
| ■ | 39 | 4-B | 01T95070F02 | Wire, Parallel (33P) | | |
| ▲ | 39 | 4-B | 01T94498F02 | Wire, Parallel (33P) | | |
| | 40 | 3-B | 15B94066F01 | Case, LCD | | |
| | 41 | 3-B | 61A94067F01 | Lens, LCD | | |
| | 42 | 3-B | 26A94068F01 | Reflector, Sheet | | |
| | 43 | 3-B | 26A94068F02 | Reflector, Sheet | | |
| | 44 | 3-B | 26A83087F08 | Reflector, Door | | |
| | 45 | 3-B | 07A94069F01 | Bracket, Shield | | |
| | 46 | 3-C | 14S81482F88 | Insulator, Cover | | |
| ● | 49 | 4-C | 30T92417F01 | Flat Cable (12P) | | |
| ■ | 49 | 4-C | 01T95071F01 | Assy., Card Wire (12P) | | |
| ▲ | 49 | 4-C | 30T92417F01 | Flat Cable (12P) | | |
| | 50 | 3-C | 14S81482F89 | Insulator, Cover | | |
| | 51 | 2-C | 02S40000G20 | Nut, Hex (M9) | | |
| ● | 53 | 4-D | 01T94492F01 | Flat Cable (4P) | | |
| ■ | 53 | 4-D | 01T95070F01 | Assy., Flat Cable (5P) | | |
| ▲ | 53 | 4-D | 01T94492F01 | Flat Cable (4P) | | |
| ■ | 54 | 2-G | 14S96390F09 | Insulator, Cover | | |
| ■ | 55 | 4-C | 14A10323W01 | Insulator, Shield | | |
| ■ | 56 | 3-C | 75S92415F72 | Cushion, Rubber | | |
| ■ | 57 | 4-C | 01T95113F01 | Lug, Wire | | |
| ■ | 58 | 4-E | 01V94700F55 | Assy., Tuner P.C. Board | | |
| ■ | 59 | 3-F | 14S94461F12 | Insulator, Cover | | |
| ■ | 60 | 2-B | 14S58462F42 | Insulator, Cover | | |

Notes : ● : For 7179M model only, ■ : For 7179E model only, ▲ : For 7179L model only, Others : Common.

# Exploded View (Cabinet)


1
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A
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C
D
E
F
G
H
⑮x2
C
A
⑨
A
C
⑮
⑰x2
D
E801
⑮
D
⑮
A
⑮x2
⑪
⑮
㉗
⑮
㉚
②
B
⑲
⑬
㉙
⑮
B
⑮
(54)■
■(60)
㉕
㉖
⑮x2
(51)●▲
④
③
㉘
⑮
●▲㉔
●▲ BA801
●▲⑱
㉛
■㉓
●▲㉓
㉝
(59)■
(50)
(56)■
(43)
(42)
(44)
(40)
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(41)
(38)
LCD401
(45)
(39)
■(57)
(49)
(55)■
(37)
㉜
●▲㉑
(47)●
㉞x2
㉞x2
●▲㊱
(58)■
㉟
▲(52)
㉔■
BA801■
⑱x2
⑮
⑧
⑦
⑥
⑤
(53)
⑳
⑯
⑯x2
⑭
⑫
A
(22)■
C
C
①
⑮
⑱x2
⑮x2
⑩
B
⑮
B
(22)●▲
C
C

Notes :
- ● : 7179M model only
- ▲ : 7179L model only
- ■ : 7179E model only
- Others : Common

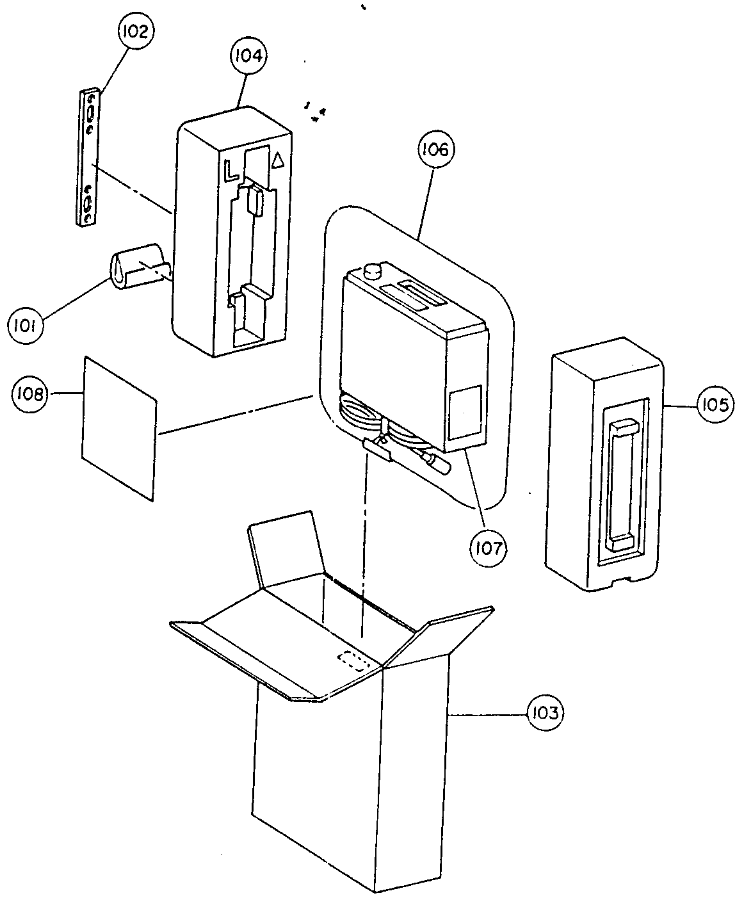
## Packing Assembly Parts List

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| 101 | 01V93900F94 | Assy., Kit Installation | | |
| 101-1 | 02B47353F01 | Nut, Hex (M5) | | |
| 101-2 | 03B44963F03 | Bolt, Hex W/Washer (M5 × 10) | | |
| 101-3 | 03S63857F05 | Screw, Tapping (M5 × 15) | | |
| 101-4 | 03S52360F37 | Screw, Countersunk (M4 × 8) | | |
| 101-5 | 45A41684U01 | Arm, Adapter | | |
| 101-6 | 46A42363F01 | Stud, Bolt | | |
| 101-7 | 65A40348G04 | Fuse, 3A | | |
| 101-8 | 03A40155F01 | Bolt, Hex (M5 × 8) | | |
| 101-9 | 03A84814F04 | Screw, Bind (M2.6 × 18) | | |
| 101-10 | 43A58272F03 | Spacer | | |
| 102 | 07B64552F01 | Bracket, Strap Receiver | | |
| ■ 103 | 56S90024F63 | Carton, Packing (Individual) | | |
| ▲ 103 | 56S90024F64 | Carton, Packing (Individual) | | |
| ● 103 | 56S90024F65 | Carton, Packing (Individual) | | |

| Symbol No. | Part No. | Description | | |
|---|---|---|---|---|
| 104 | 56D82187F01 | Tray, Packing (L) | | |
| 105 | 56D82187F02 | Tray, Packing (R) | | |
| 106 | 56B40990T36 | Sack, Polyethylene | | |
| 107 | 01V93900F96 | Assy., Mother Case | | |
| 107-1 | 15D94518F01 | Case, Mother | | |
| 107-2 | 03S44205G33 | Screw, Pan (M2.6 × 8) | | |
| 107-3 | 03S44205G07 | Screw, Pan (M2.6 × 5) | | |
| 107-4 | 01T94840F01 | Assy., QRB Connector | | |
| ● 108 | 68P93881F21 | Owner's Manual | | |
| ▲ 108 | 68P93881F22 | Owner's Manual | | |
| ■ 108 | 68P93881F51 | Owner's Manual | | |

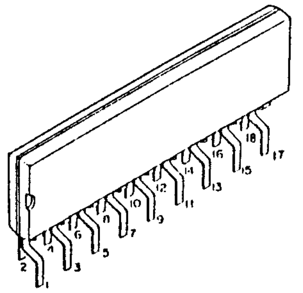
Notes : ● : For 7179M model only, ■ : For 7179E model only, ▲ : For 7179L model only, Others : Common.

## Packing Method View


102
104
106
101
108
105
107
103

## Semi-Conductor Lead Identifications

LA1145 : ■IC1
○IC2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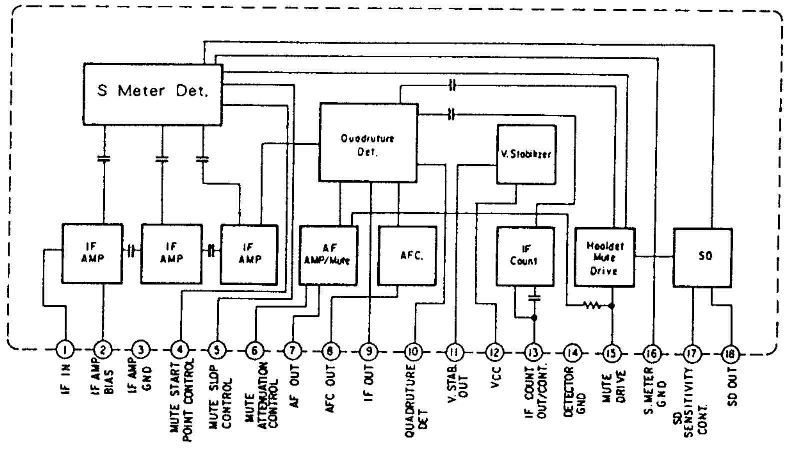
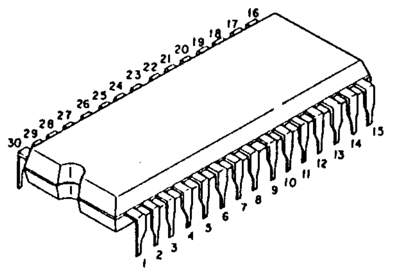
18


S Meter Det.
Quadruture Det.
V. Stabilizer
IF AMP
IF AMP
IF AMP
AF AMP/Mute
AFC.
IF Count
Hooldet Mute Drive
SD
IF IN
IF AMP BIAS
IF AMP GND
MUTE START POINT CONTROL
MUTE SLOP CONTROL
MUTE ATTENUATION CONTROL
AF OUT
AFC OUT
IF OUT
QUADRUTURE DET
V. STAB. OUT
VCC
IF COUNT OUT/CONT.
DETECTOR GND
MUTE DRIVE
S.METER GND
SD SENSITIVITY CONT.
SD OUT

μ PC1322CA : ○IC1


1
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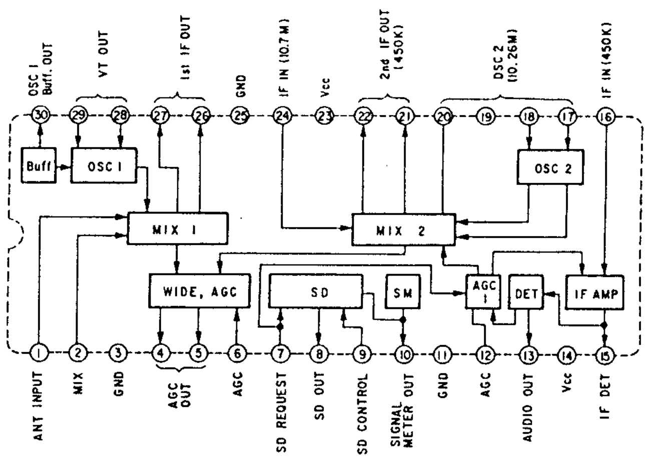
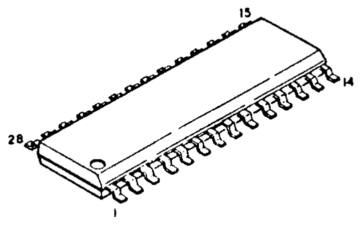
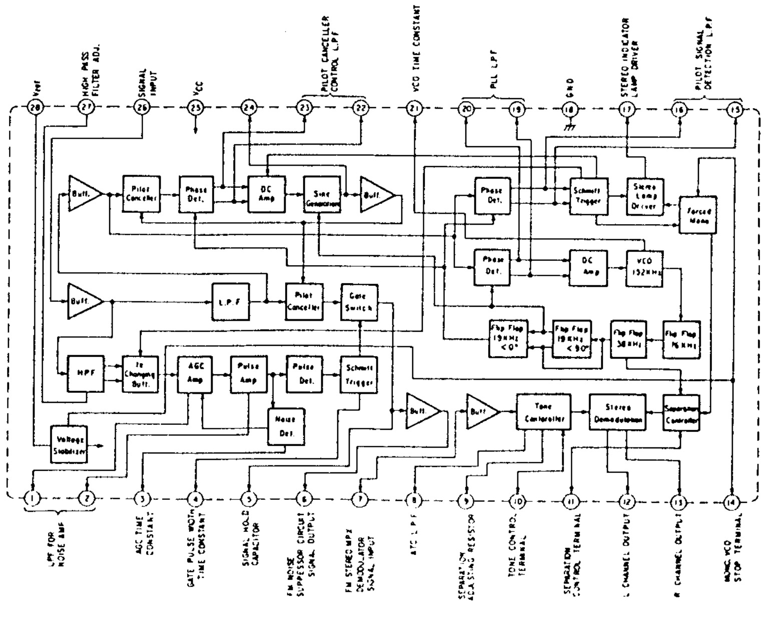

OSC 1 Buff. OUT
VT OUT
1st IF OUT
GND
IF IN (10.7 M)
Vcc
2nd IF OUT (450K)
OSC 2 (10.26M)
IF IN (450K)
Buff
OSC 1
OSC 2
MIX 1
MIX 2
WIDE, AGC
SD
SM
AGC 1
DET
IF AMP
ANT INPUT
MIX
GND
AGC OUT
AGC
SD REQUEST
SD OUT
SD CONTROL
SIGNAL METER OUT
GND
AGC
AUDIO OUT
Vcc
IF DET

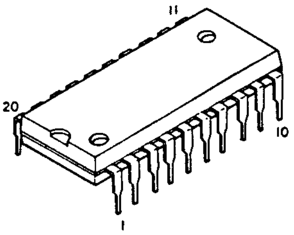
AN7465S : ■IC2
○IC3

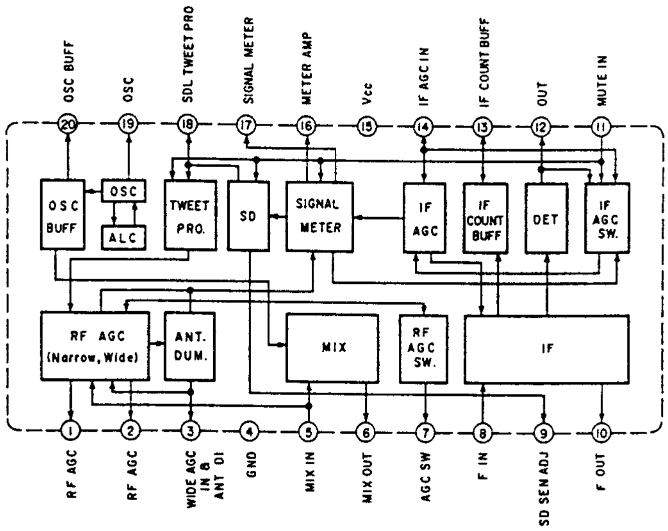



Vref
HIGH PASS FILTER ADJ.
SIGNAL INPUT
VCC
PILOT CANCELLER CONTROL L.P.F
VCO TIME CONSTANT
PLL L.P.F
GND
STEREO INDICATOR LAMP DRIVER
PILOT SIGNAL DETECTION L.P.F
Buff.
Pilot Canceller
Phase Det.
DC Amp
Sine Generation
Phase Det.
Schmitt Trigger
Stereo Lamp Driver
Forced Mono
DC Amp
VCO 152KHz
L.P.F
Pilot Canceller
Gate Switch
Flip Flop 19KHz <0°
Flip Flop 19KHz <90°
Flip Flop 38KHz
Flip Flop 76KHz
HPF
Charging Buff.
AGC Amp
Pulse Amp
Pulse Det.
Schmitt Trigger
Noise Det.
Voltage Stabilizer
Tone Controller
Stereo Demodulation
Separation Controller
LPF FOR NOISE AMP
AGC TIME CONSTANT
GATE PULSE WIDTH TIME CONSTANT
SIGNAL HOLD CAPACITOR
FM NOISE SUPPRESSOR CIRCUIT SIGNAL OUTPUT
FM STEREO MPX DEMODULATOR SIGNAL INPUT
ATC L.P.F
SEPARATION ADJUSTING RESISTOR
TONE CONTROL TERMINAL
SEPARATION CONTROL TERMINAL
L CHANNEL OUTPUT
R CHANNEL OUTPUT
MONO VCO STOP TERMINAL

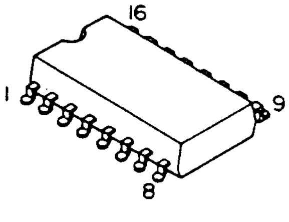
Notes : ○ : For 7179M/L models only, ● : For 7179M model only, ■ : For 7179E model only,
▲ : For 7179L model only, Others : Common.

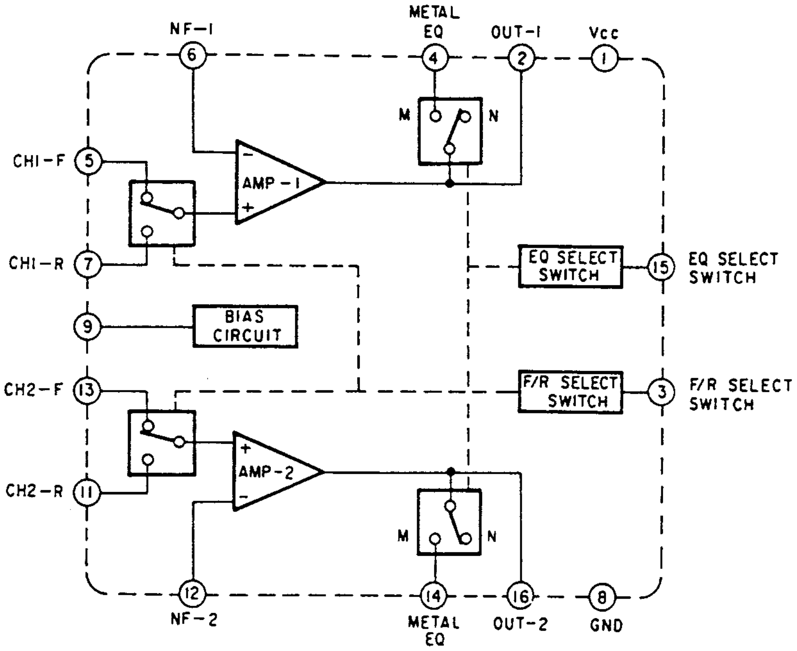
LA1137 : ■IC3



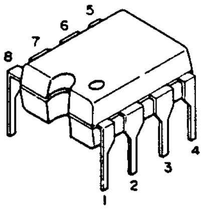

OSC BUFF
OSC
SDL TWEET PRO
SIGNAL METER
METER AMP
Vcc
IF AGC IN
IF COUNT BUFF
OUT
MUTE IN
⑳
⑲
⑱
⑰
⑯
⑮
⑭
⑬
⑫
⑪
OSC BUFF
OSC
ALC
TWEET PRO.
SD
SIGNAL METER
IF AGC
IF COUNT BUFF
DET
IF AGC SW.
RF AGC (Narrow, Wide)
ANT. DUM.
MIX
RF AGC SW.
IF
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
RF AGC
RF AGC
WIDE AGC IN & ANT DI
GND
MIX IN
MIX OUT
AGC SW
F IN
SD SEN ADJ
F OUT

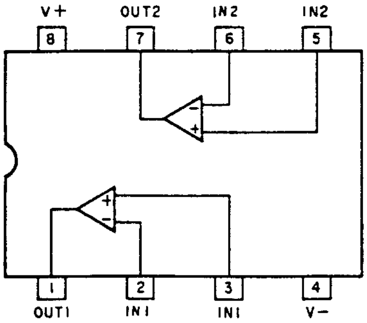
TA7705F : IC1501




NF-1
METAL EQ
OUT-1
Vcc
⑥
④
②
①
M
N
CH1-F
⑤
AMP-1
CH1-R
⑦
EQ SELECT SWITCH
⑮
EQ SELECT SWITCH
⑨
BIAS CIRCUIT
CH2-F
⑬
F/R SELECT SWITCH
③
F/R SELECT SWITCH
AMP-2
CH2-R
⑪
M
N
⑫
⑭
⑯
⑧
NF-2
METAL EQ
OUT-2
GND

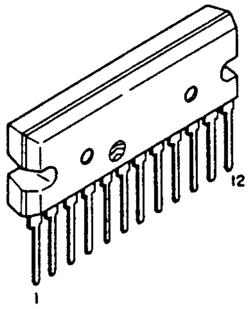
µ PC4558C : ■IC201
○IC301

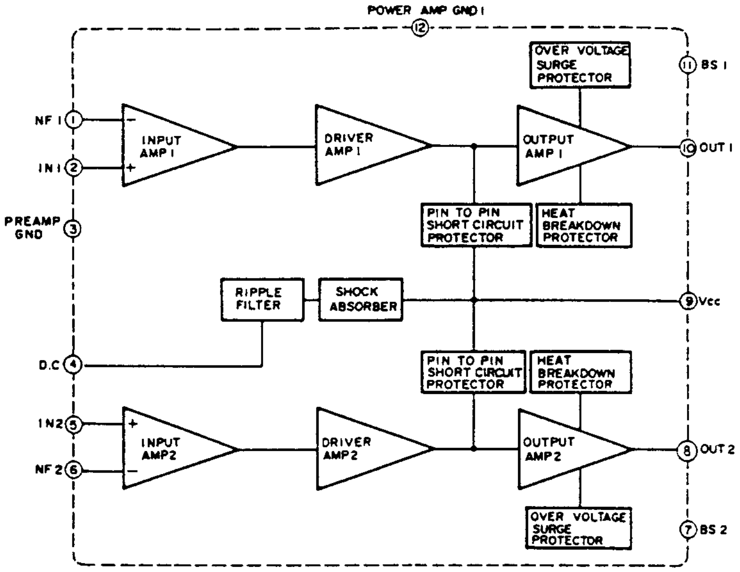



V+
OUT2
IN2
IN2
8
7
6
5
1
2
3
4
OUT1
IN1
IN1
V-

Notes : ○ : For 7179M/L models only, ● : For 7179M model only, ■ : For 7179E model only,
▲ : For 7179L model only, Others : Common.

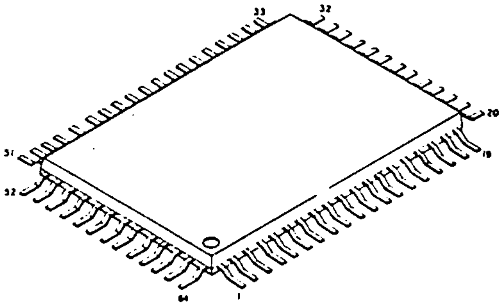
**LA4445 : ■IC202**
**○IC303**



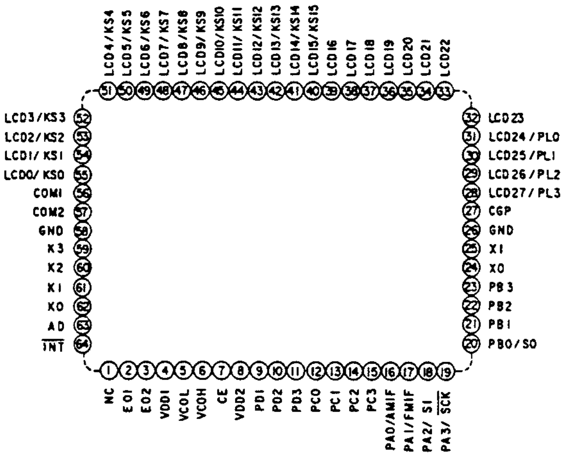


POWER AMP GND I
⑫
OVER VOLTAGE SURGE PROTECTOR
⑪ BS I
NF I ①
IN I ②
INPUT AMP I
DRIVER AMP I
OUTPUT AMP I
⑩ OUT I
PREAMP GND ③
PIN TO PIN SHORT CIRCUIT PROTECTOR
HEAT BREAKDOWN PROTECTOR
RIPPLE FILTER
SHOCK ABSORBER
⑨ Vcc
D.C ④
PIN TO PIN SHORT CIRCUIT PROTECTOR
HEAT BREAKDOWN PROTECTOR
IN2 ⑤
NF2 ⑥
INPUT AMP2
DRIVER AMP2
OUTPUT AMP2
⑧ OUT 2
OVER VOLTAGE SURGE PROTECTOR
⑦ BS 2

**93836F01 : ○IC601**

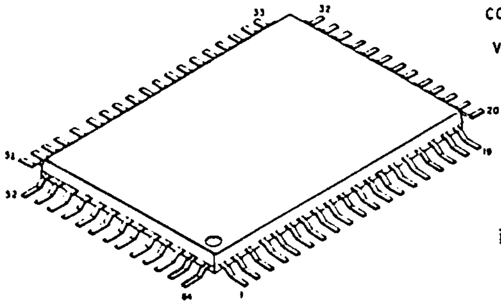


33
32
20
51
19
52
64
1

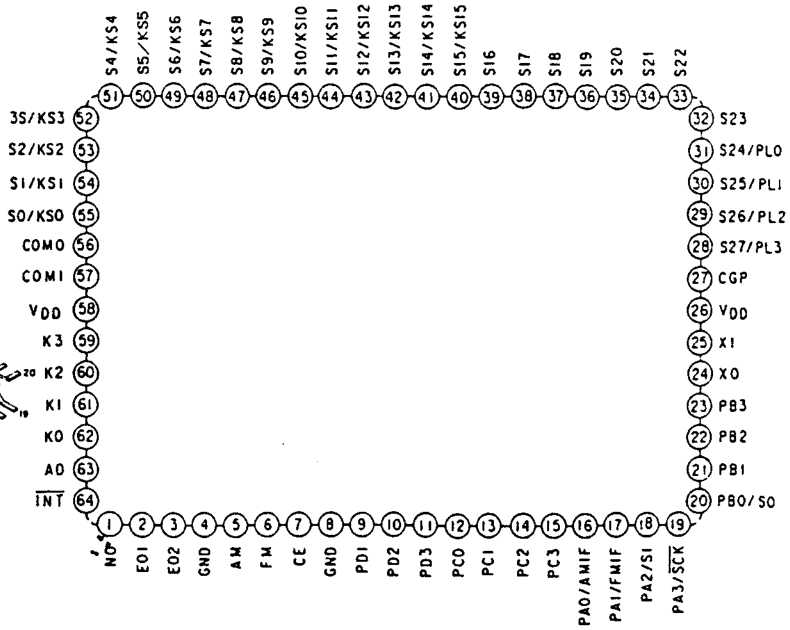


① NC
② EO1
③ EO2
④ VDD1
⑤ VCOL
⑥ VCOH
⑦ CE
⑧ VDD2
⑨ PD1
⑩ PD2
⑪ PD3
⑫ PC0
⑬ PC1
⑭ PC2
⑮ PC3
⑯ PA0/AMIF
⑰ PA1/FMIF
⑱ PA2/ SI
⑲ PA3/ $\overline{SCK}$
⑳ PB0/SO
㉑ PB1
㉒ PB2
㉓ PB3
㉔ XO
㉕ XI
㉖ GND
㉗ CGP
㉘ LCD27/PL3
㉙ LCD26/PL2
㉚ LCD25/PL1
㉛ LCD24/PL0
㉜ LCD23
㉝ LCD22
㉞ LCD21
㉟ LCD20
㊱ LCD19
㊲ LCD18
㊳ LCD17
㊴ LCD16
㊵ LCD15/KS15
㊶ LCD14/KS14
㊷ LCD13/KS13
㊸ LCD12/KS12
㊹ LCD11/KS11
㊺ LCD10/KS10
㊻ LCD9/KS9
㊼ LCD8/KS8
㊽ LCD7/KS7
㊾ LCD6/KS6
㊿ LCD5/KS5
(51) LCD4/KS4
(52) LCD3/KS3
(53) LCD2/KS2
(54) LCD1/KS1
(55) LCD0/KS0
(56) COM1
(57) COM2
(58) GND
(59) K3
(60) K2
(61) K1
(62) KO
(63) AD
(64) $\overline{INT}$

**92808F01 : ■IC601**



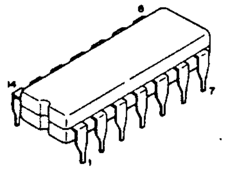
33
32
20
51
19
52
64
1

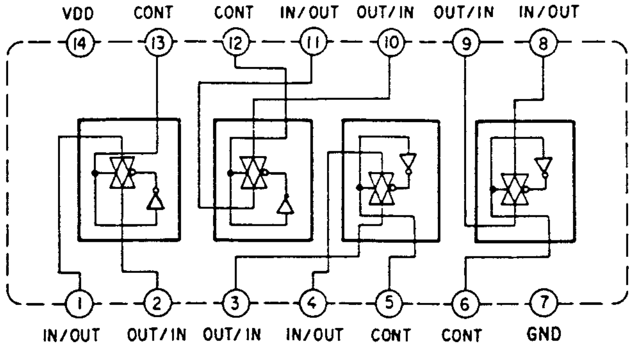


① NC ▲
② EO1
③ EO2
④ GND
⑤ AM
⑥ FM
⑦ CE
⑧ GND
⑨ PD1
⑩ PD2
⑪ PD3
⑫ PC0
⑬ PC1
⑭ PC2
⑮ PC3
⑯ PA0/AMIF
⑰ PA1/FMIF
⑱ PA2/SI
⑲ PA3/$\overline{SCK}$
⑳ PB0/SO
㉑ PB1
㉒ PB2
㉓ PB3
㉔ XO
㉕ XI
㉖ VDD
㉗ CGP
㉘ S27/PL3
㉙ S26/PL2
㉚ S25/PL1
㉛ S24/PL0
㉜ S23
㉝ S22
㉞ S21
㉟ S20
㊱ S19
㊲ S18
㊳ S17
㊴ S16
㊵ S15/KS15
㊶ S14/KS14
㊷ S13/KS13
㊸ S12/KS12
㊹ S11/KS11
㊺ S10/KS10
㊻ S9/KS9
㊼ S8/KS8
㊽ S7/KS7
㊾ S6/KS6
㊿ S5/KS5
(51) S4/KS4
(52) 3S/KS3
(53) S2/KS2
(54) S1/KS1
(55) S0/KS0
(56) COM0
(57) COM1
(58) VDD
(59) K3
(60) K2
(61) K1
(62) KO
(63) AD
(64) $\overline{INT}$

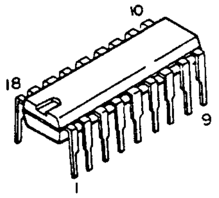
Notes : ○ : For 7179M/L models only, ● : For 7179M model only, ■ : For 7179E model only,
▲ : For 7179L model only, Others : Common.

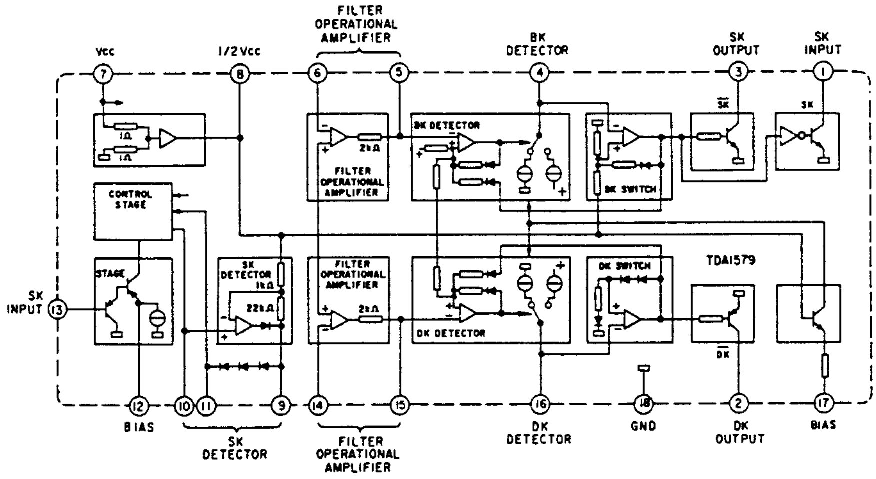
TC4066BP : IC602, 603
○IC606



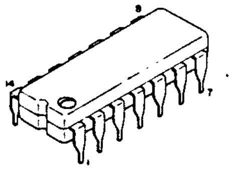

VDD
CONT
CONT
IN/OUT
OUT/IN
OUT/IN
IN/OUT
14
13
12
11
10
9
8
1
2
3
4
5
6
7
IN/OUT
OUT/IN
OUT/IN
IN/OUT
CONT
CONT
GND

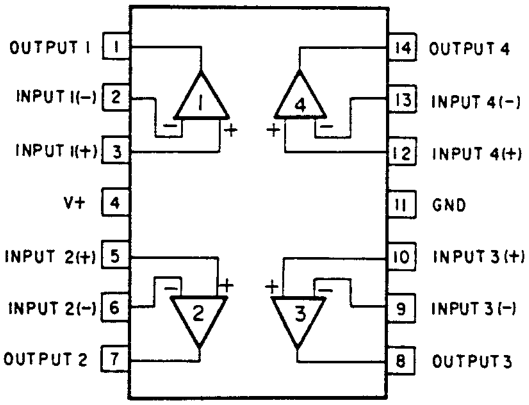
TDA1579 : ●IC604



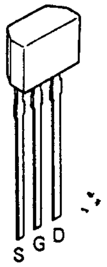

FILTER OPERATIONAL AMPLIFIER
Vcc
1/2Vcc
BK DETECTOR
SK OUTPUT
SK INPUT
7
8
6
5
4
3
1
1Ω
1Ω
FILTER OPERATIONAL AMPLIFIER
2kΩ
BK DETECTOR
BK SWITCH
SK
CONTROL STAGE
STAGE
SK DETECTOR
1kΩ
22kΩ
FILTER OPERATIONAL AMPLIFIER
2kΩ
DK DETECTOR
DK SWITCH
TDA1579
DK
SK INPUT
13
12
BIAS
10
11
9
SK DETECTOR
14
15
FILTER OPERATIONAL AMPLIFIER
16
DK DETECTOR
18
GND
2
DK OUTPUT
17
BIAS

NJM2902N : ●IC605




OUTPUT 1
1
INPUT 1(−)
2
INPUT 1(+)
3
V+
4
INPUT 2(+)
5
INPUT 2(−)
6
OUTPUT 2
7
14
OUTPUT 4
13
INPUT 4(−)
12
INPUT 4(+)
11
GND
10
INPUT 3(+)
9
INPUT 3(−)
8
OUTPUT 3
1
2
3
4

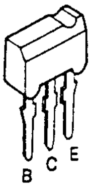
2SK715 : ○Q1
■Q6



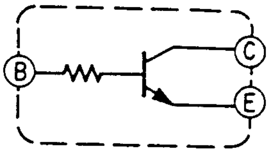
S : Source
G : Gate
D : Drain

Notes : ○ : For 7179M/L models only, ● : For 7179M model only, ■ : For 7179E model only,
▲ : For 7179L model only, Others : Common.

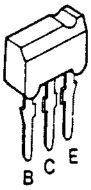
DTC114T : ■Q1, ■Q602, ■Q603
UN1215 : ○Q5, ○Q660, ○Q805, ○Q806
●Q604
▲Q605



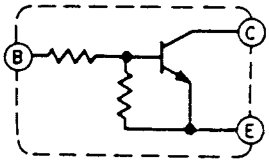
E : Emitter
C : Collector
B : Base



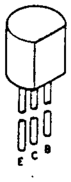
DTC124 : ■Q2, ■Q3, ■Q8, ■Q601, ■Q608, ■Q609, ■Q610, ■Q611, ■Q803, ■Q806, ■Q808
○Q3, ○Q6, ○Q106, ○Q603, ○Q633
▲Q657, ▲Q658
DTC114 : ■Q203, ■Q204
○Q303, ○Q305



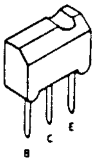
E : Emitter
C : Collector
B : Base



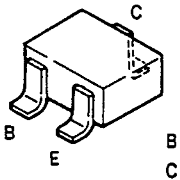
2SC1815 : ○Q2
●Q651, ●653, ●654, ●655, ●Q656,
●Q657, ●Q659
■Q4, ■Q5
2SA1015 : ○Q652

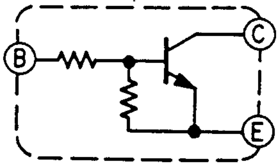


2SD636 : ○Q4, ○Q301, ○Q302, ○Q801
●Q658
■Q201, ■Q202, ■Q802
2SD661 : ○Q601, ○Q602
■Q606, ■Q607
2SD973A : ■Q801, ■Q805
○Q802
2SD638 : ○Q803, ○Q804
●Q807
■Q807
2SB641 : ■Q804



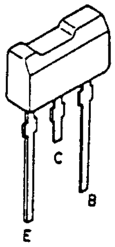
DTC124K : Q101

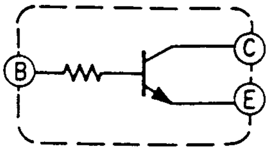




B : Base
C : Collector
E : Emitter

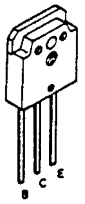
DTC343TL : ○Q103, ○Q104
■Q205, ■Q206, ■Q207, ■Q208





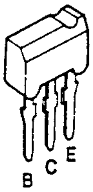
B : Base
C : Collector
E : Emitter

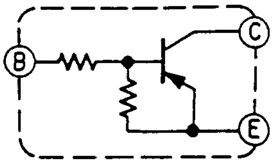
2SD1330 : ○Q304, ○Q306, ○Q311, ○Q312
●Q307, ●Q308, ●Q309, ●Q310



B : Base
C : Collector
E : Emitter

DTA124 : ■Q612
○Q632
DTA114 : ■Q613
○Q631





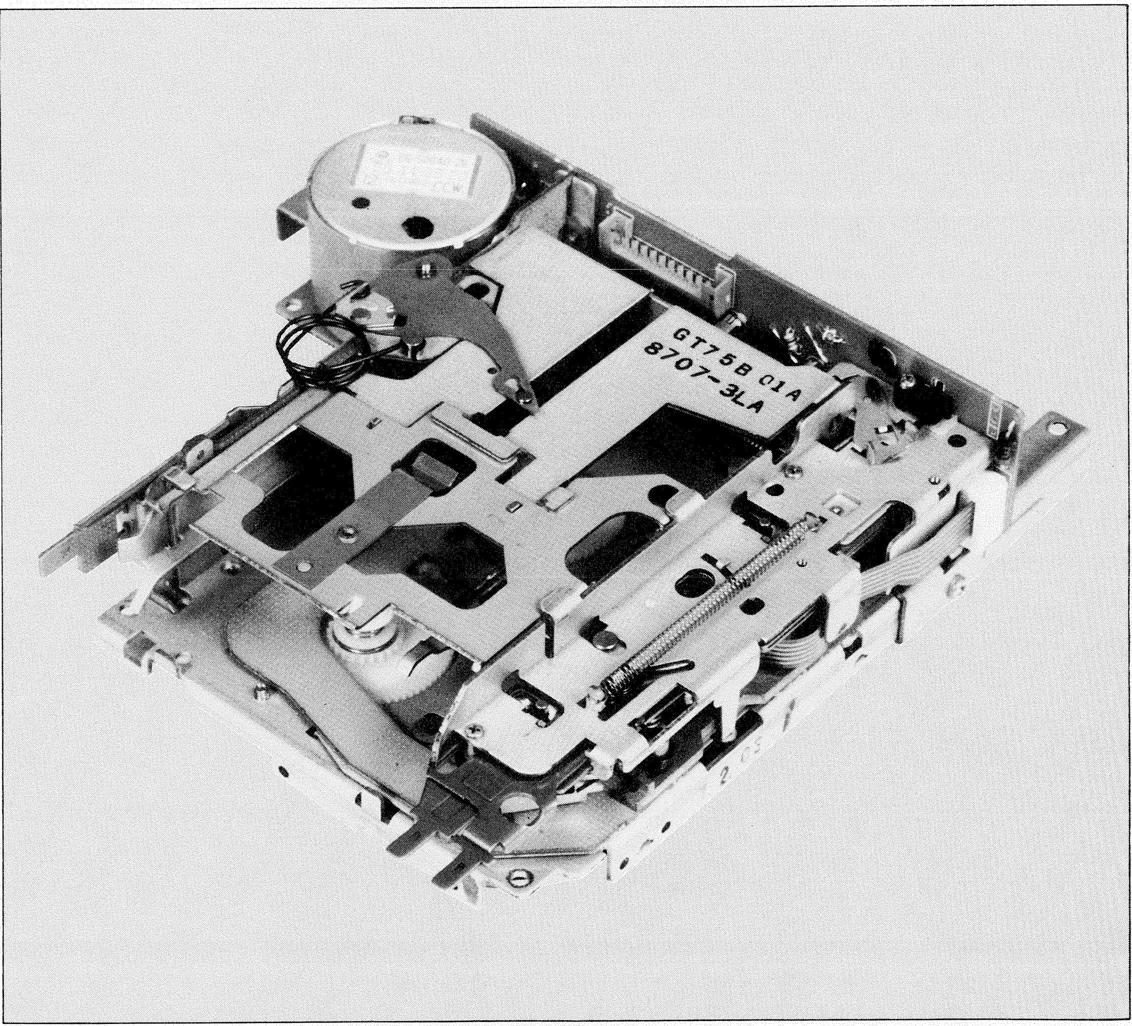
B : Base
C : Collector
E : Emitter

Notes : ○ : For 7179M/L models only, ● : For 7179M model only, ■ : For 7179E model only,
▲ : For 7179L model only, Others : Common.

ALPINE **SERVICE MANUAL**

# Exploded View & Parts List For Cassette Deck Mechanism

## ADDENDUM & REVISED (III)


GT75B Q1A
8707-3LA

# GT SERIES

# Contents

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Parts List (1／3) ······ 7 to 8
Exploded View (1／3) ······ 9 to 10
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Parts List (2／3) ······ 13 to 14
Parts List (3／3) ······ 15 to 16
Exploded View (3／3) ······ 17 to 18

# Replacement of Mechanical Parts

## 1. Replacement of Belt

(1) Remove two screws marked “ ● ” and “ ◎ ” as shown in Figure 1 and remove the flywheel mounting bracket.

(2) Remove one screw “ ○ ” and motor pulley cover as shown in Figure 1.

(3) Clean a good belt with alcohol and thread the belt as shown in Figure 2. Assembly the unit, performing above steps in reverse order.

(4) Confirm the tape speed and wow/flutter with the test tape (MTT-111).

## 2. Replacement of Motor

(1) Remove two screws marked “ △ ” as shown in Figure 1.

(2) Remove two belts (A) and (B) as shown in Figure 2.

(3) Remove wire leads from the motor terminal and the motor will be removed.

## 3. Replacement of Flywheel

(1) Remove the flywheel mounting bracket and the belt (A) as shown in Figure 2.

(2) Remove the flywheel by moving it straight up.

(3) Mount a good flywheel. (In this case also insert the flywheel washer and apply a drop of “ mobile 1 ” oil.)

(4) Mount the belt and the flywheel mounting bracket.

(5) After assembling, confirm the tape speed and wow-flutter, using a test tape (MTT-111).

**Notes :**

1. Take care the belt is not stained with oil.
2. When tightening screws for the flywheel bracket, apply tightening torque of 4.5kg•cm (marked “ ◎ ”) and 2.5kg • cm (marked “ ● ”).
   **(GT75B Series model only)**
   When tightening screws for the flywheel bracket, apply tightening torque of 6kg•cm (marked “ ◎ ”) and 2.3kg • cm (marked “ ● ”)
   **( On GT75L010 / GT75L110 / GT75L220 / GT75L020/GT75L02N/GT75L120/GT75L12N models only)**

## 4. Replacement of Reels

(1) Remove two flywheels.

(2) Remove two lock washers as shown in Figure 3 and the two reels will be removed.

(3) Replace with good reels and assembly them using above steps in reverse order.

(4) After assembling, confirm the tape speed and wow-flutter using a test tape (MTT-111).

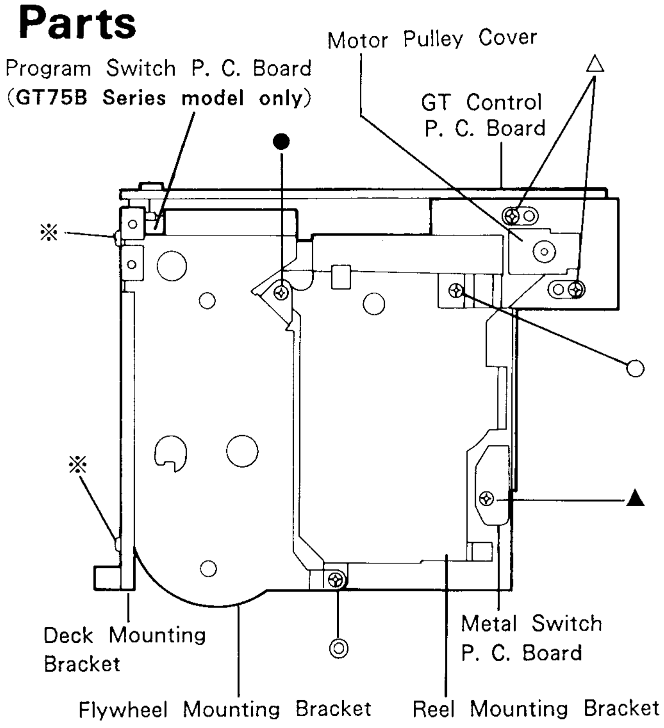

Motor Pulley Cover
Program Switch P. C. Board
(GT75B Series model only)
△
GT Control
P. C. Board
●
※
○
▲
※
Deck Mounting
Bracket
◎
Metal Switch
P. C. Board
Flywheel Mounting Bracket
Reel Mounting Bracket

**Figure 1**

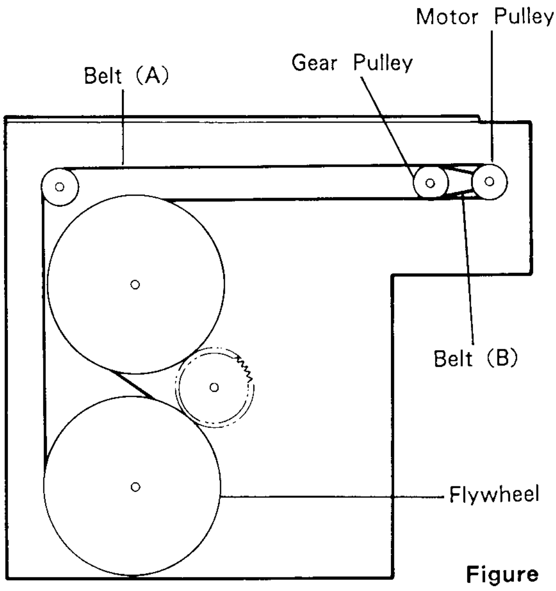

Motor Pulley
Gear Pulley
Belt (A)
Belt (B)
Flywheel

**Figure 2**

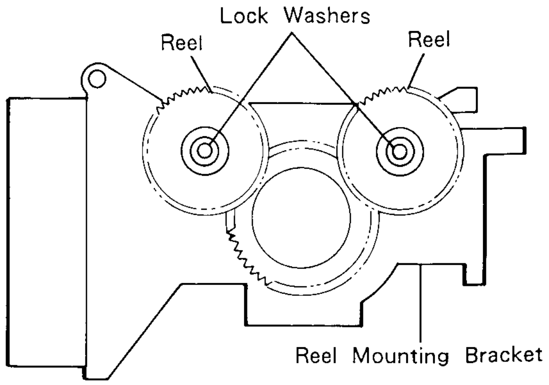

Lock Washers
Reel
Reel
Reel Mounting Bracket

**Figure 3**

### 5. Replacement of Head

(1) Remove two screws marked " ※ " as shown in Figure 1.

(2) Remove two screws marked " ■ " as shown in Figure 8.

(3) Remove two screws marked " ◩ " and the head flexible P. C. Board can be removed as shown in Figure 4. Then remove the P. C. Board.

(4) Replace with a good head and assembly them using above steps in reverse order.

(5) After assembling, adjust the head azimuth using the test tape (MTT-114NB). Apply the screw-lock paint on the adjusting screws.

**Note :** Since the flexible P. C. Board is apt to be damaged, handle it with sufficient care.

Perform the head height adjustment.

(6) Place the height adjustment gauge (M-300 or AT-500) on the head base as shown in Figures 5, 6 and 7, and adjust the gauge height so that the check bar can enter the tape head guide smoothly.

(7) When the check bar touches top or bottom guide of the tape guide, insert a spacer (of 0.1mm thickness or a polyslider washer of 0.13mm in thickness). (Or remove the spacer to adjust the height).

**Note :** As shown in Figure 6, if the height gauge is not available, run a tape as usual and adjust the height (head and small guide window) so that no tape curling is observed.

### 6. Replacement fo Pinch Rollers

(1) Remove RF Frame Bracket.

(2) Remove two lock washers and two pinch roller springs and the pinch rollers can be removed as shown in Figure 4.

(3) Replace with good pinch rollers and clean them with alchol and assembly it using above steps in reverse order.

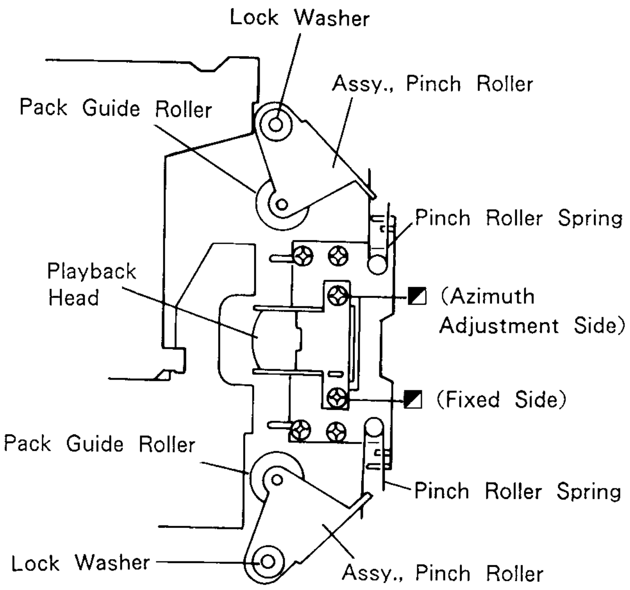
(4) After assembling, confirm the tape speed and wow-flutter with the test tape (MTT-111).

### 7. Replacement of Metal Switch P. C. Board

(1) Remove a screw marked " ▲ " in Figure 1.

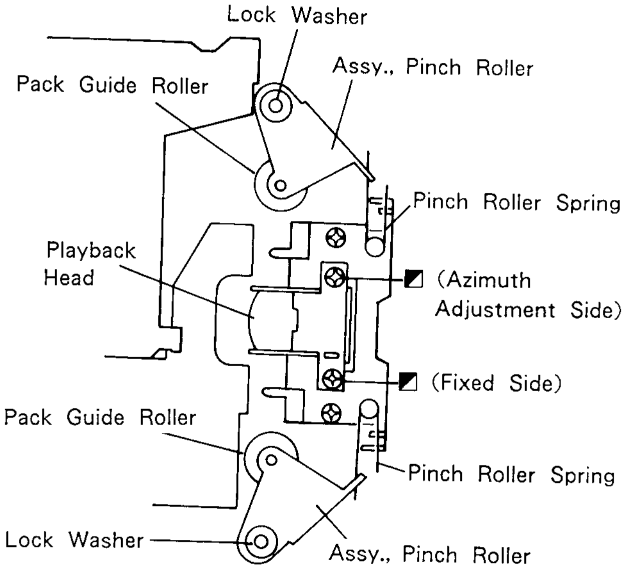
**Note :** Since the wire parallel is apt to be damaged, handle it with sufficient care.

(2) Replace the board with a good one and assembly the board using above steps in reverse order.



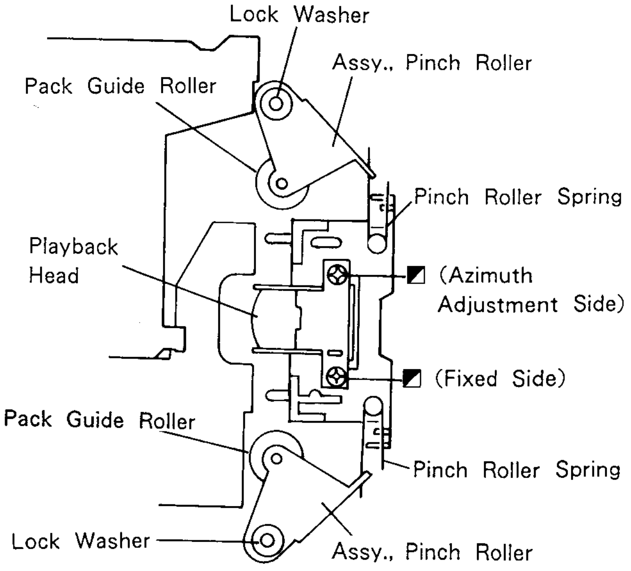
Lock Washer
Assy., Pinch Roller
Pack Guide Roller
Pinch Roller Spring
Playback Head
◩ (Azimuth Adjustment Side)
◩ (Fixed Side)
Pack Guide Roller
Pinch Roller Spring
Lock Washer
Assy., Pinch Roller

**(GT75B Series model only)** **Figure 4**



Lock Washer
Assy., Pinch Roller
Pack Guide Roller
Pinch Roller Spring
Playback Head
◩ (Azimuth Adjustment Side)
◩ (Fixed Side)
Pack Guide Roller
Pinch Roller Spring
Lock Washer
Assy., Pinch Roller

**(GT75L010/GT75L110 models only)** **Figure 4**



Lock Washer
Assy., Pinch Roller
Pack Guide Roller
Pinch Roller Spring
Playback Head
◩ (Azimuth Adjustment Side)
◩ (Fixed Side)
Pack Guide Roller
Pinch Roller Spring
Lock Washer
Assy., Pinch Roller

**(GT75L220 model only)** **Figure 4**

## 8. Replacement of GT Control P. C. Board and Program Switch P. C. Board

**(GT75B Series model only)**

(1) Remove solders as shown in Figure 9.

(2) Remove two screws marked "□" as shown in Figure 9.

(3) Remove all connectors and wire leads from the P. C. Boards.

(4) After replacing with good ones, assemble them using disassembly instructions in reverse order.

### Replacement of GT Control P. C. Board

**(On GT75L010/GT75L110/GT75L220 models only)**

(1) Remove solders as shown in Figure 9.

(2) Remove two screws marked "□" as shown in Figure 9.

(3) Remove all connectors and wire leads from the P. C. Boards.

(4) After replacing with a good one, assemble the board using disassembly instructions in reverse order.

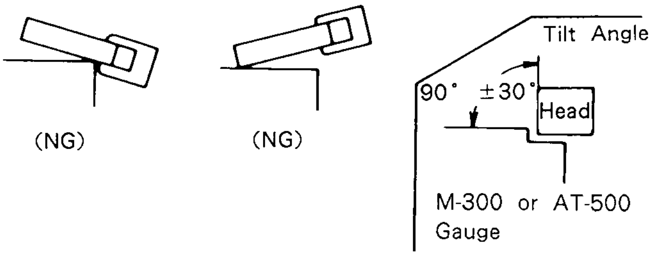

(NG)
(NG)
Tilt Angle
90° ±30°
Head
M-300 or AT-500 Gauge

Figure 5

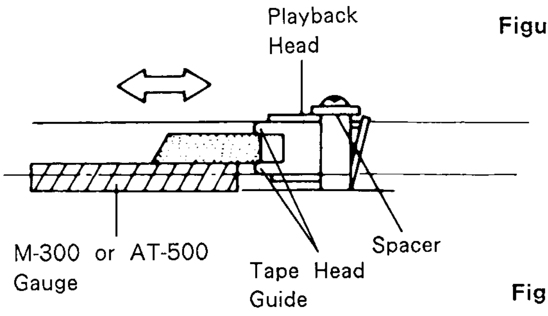
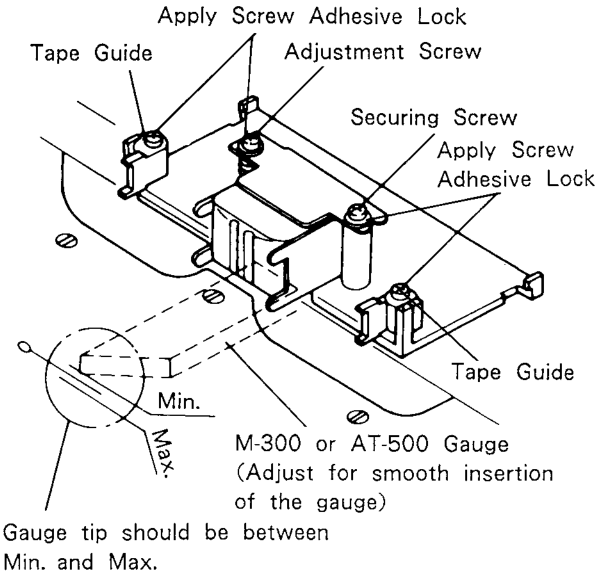
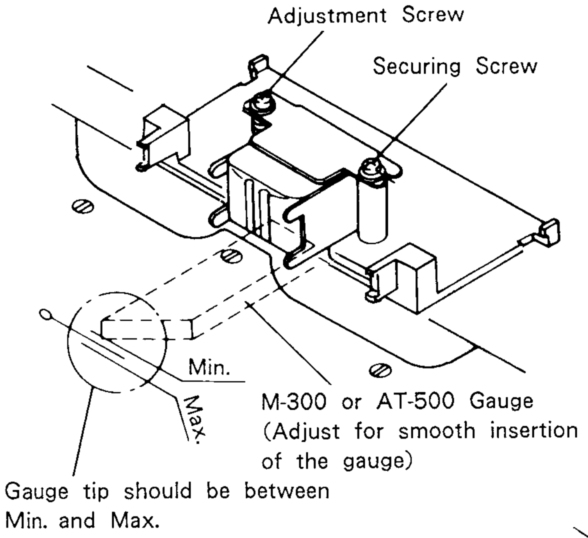

Playback Head
M-300 or AT-500 Gauge
Tape Head Guide
Spacer

Figure 6


Apply Screw Adhesive Lock
Tape Guide
Adjustment Screw
Securing Screw
Apply Screw Adhesive Lock
Tape Guide
Min.
Max.
M-300 or AT-500 Gauge (Adjust for smooth insertion of the gauge)
Gauge tip should be between Min. and Max.

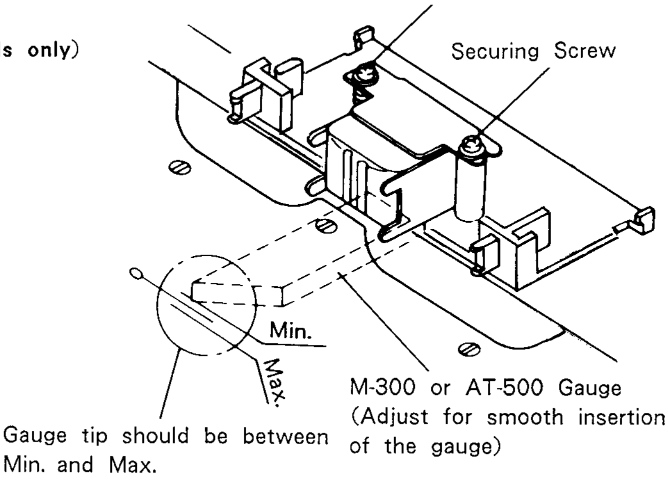
**(GT75B Series model only)**

Figure 7


Adjustment Screw
Securing Screw
Min.
Max.
M-300 or AT-500 Gauge (Adjust for smooth insertion of the gauge)
Gauge tip should be between Min. and Max.

**(GT75L010/GT75L110 models only)**

Figure 7


Adjustment Screw
Securing Screw
Min.
Max.
M-300 or AT-500 Gauge (Adjust for smooth insertion of the gauge)
Gauge tip should be between Min. and Max.

**(GT75L220 model only)**

### 9. Replacement of Mute Switch P. C. Board

**(GT75B Series model only)**

(1) Remove one screw marked " ★ " as shown in Figure 8.

(2) After replacing with a good one, assemble the P. C. Board using disassembly instructions in reverse order.

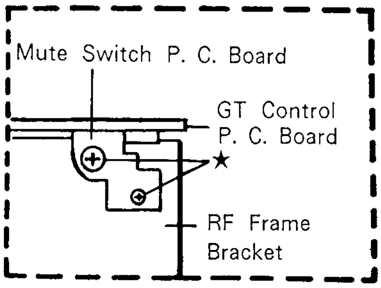
**(On GT75B11A／GT75B11C／GT75B11D models only)**

(1) Remove two screws marked " ★ " as shown in Figure A .

(2) After replacing with a good one, assemble the P. C. Boards using above steps in reverse order.

Figure Ⓐ

**(GT75B11A／GT75B11C／GT75B11D models only)**


Mute Switch P. C. Board
GT Control P. C. Board
★
RF Frame Bracket

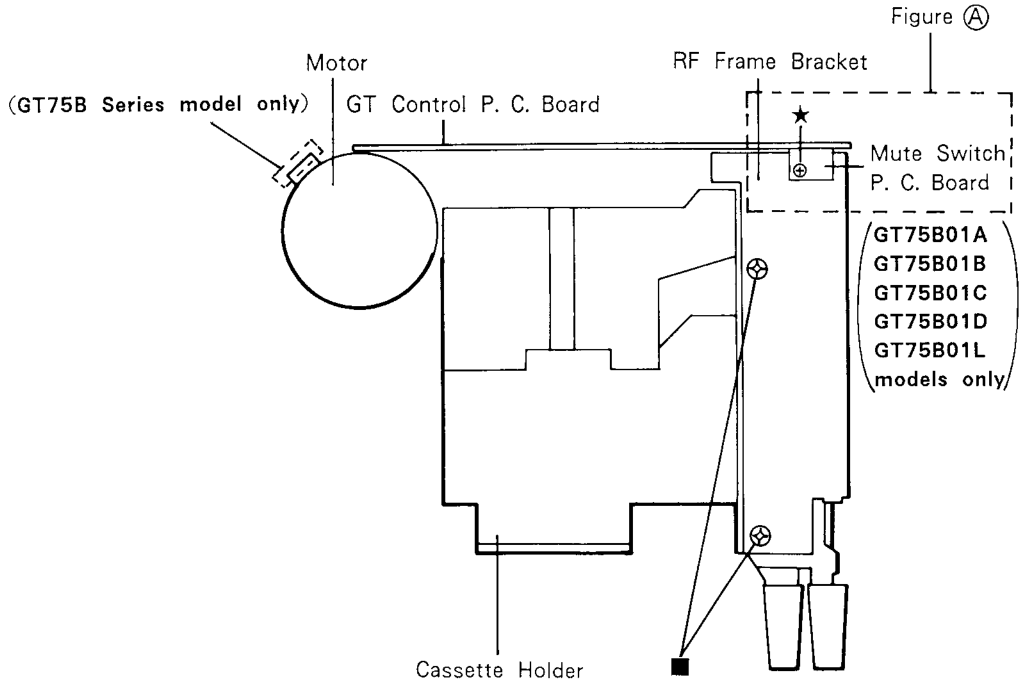
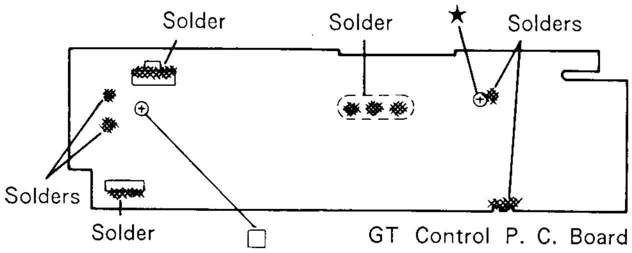


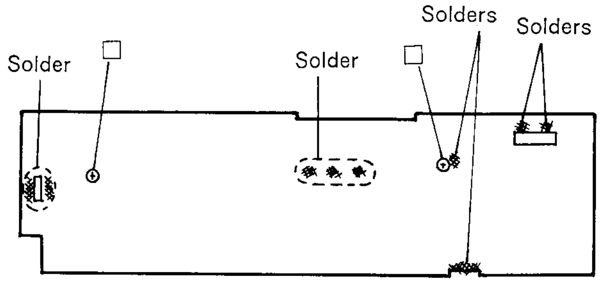
Figure Ⓐ
Motor
RF Frame Bracket
(GT75B Series model only)
GT Control P. C. Board
★
Mute Switch P. C. Board
GT75B01A
GT75B01B
GT75B01C
GT75B01D
GT75B01L
models only
Cassette Holder
■

**Figure 8**


Solder
Solder
★
Solders
Solders
Solder
□
GT Control P. C. Board

**(GT75B Series model only)**

**Figure 9**


Solder
□
Solder
□
Solders
Solders

**(GT75L010／GT75L110／GT75L220 models only)**

**Figure 9**

# Parts List (1/3)

○ : For GT75B01A model only, ● : For GT75B01B model only,
☐ : For GT75B11A model only, ■ : For GT75B11C model only, Others : Common.

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 201 | 5-C | 43A63281F01 | Roller, Plate Base | | |
| | 202 | 5-C | 43A63282F01 | Roller, Eject Arm | | |
| | 203 | 5-C | 43A80430F01 | Roller, Eject Arm (B) | | |
| | 204 | 5-B | 41A80448F01 | Spring, Turn Eject | | |
| | 205 | 5-C | 41B80444F04 | Spring | | |
| | 206 | 3-C | 04A41345P15 | Washer, Lock (M1.2) | | |
| | 207 | | 04A41345P02 | Washer, Lock (M1.7) | | |
| | 208 | 3-A | 01A82275F03 | Assy., Riv. Plate Base | | |
| | 209 | 4-B | 45B82846F01 | Slider | | |
| | 210 | 4-B | 47A63278F01 | Shaft, Slider | | |
| | 211 | 5-B | 01A80457F01 | Assy., Riv. Eject Arm | | |
| | 213 | 5-C | 01A80983F01 | Assy., Riv. Eject Lever | | |
| | 214 | 4-B | 01A63494F01 | Assy., Riv. Cassette Holder | | |
| | 216 | 4-E | 01A80461F01 | Assy., Riv. Reverse Frame | | |
| | 217 | 3-E | 44B80378F01 | Gear, Change | | |
| | 218 | 3-E | 45A80366F01 | Lever, Reverse Lock | | |
| | 219 | 3-E | 45A80367F01 | Lever, Reverse Act | | |
| | 220 | 3-E | 41B80444F02 | Spring | | |
| | 221 | 3-E | 41B80444F03 | Spring | | |
| | 222 | | 04A41345P01 | Washer, Lock (M1.2) | | |
| | 224 | | 43A80431F01 | Roller, Sub Head Base | | |
| | 225 | 2-C | 41B80444F01 | Spring | | |
| | 226 | 2-C | 01A80454F01 | Assy., Riv. Head Base Act | | |
| | 227 | 3-D | 01A80458F01 | Assy., Riv. RF Arm | | |
| | 228 | 4-B | 07B80356F01 | Bracket, RF Frame | | |
| | 231 | 3-B | 01A84687F01 | Assy., Riv. RF Link | | |
| | 232 | 3-A | 45A80361F01 | Lever, Mute | | |
| ☐ | 233 | 2-C | 84A84245F01 | Mute Switch P. C. Board | | |
| ■ | 233 | 2-C | 84A84245F01 | Mute Switch P. C. Board | | |
| ○ | 233 | 2-D | 84A82645F01 | Mute Switch P. C. Board | | |

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| ● | 233 | 2-D | 84A82645F01 | Mute Switch P. C. Board | | |
| | 234 | 3-C | 41A80446F01 | Spring, RF Lever | | |
| | 235 | 4-B | 41B80444F06 | Spring | | |
| | 236 | | 03S56479F04 | Screw, Pan (M2 × 7) | | |
| | 237 | 3-A | 01A80459F01 | Assy., Riv. Program Push Lever | | |
| | 238 | 3-C | 43A80427F01 | Roller, Head Base (C) | | |
| | 239 | | 03S56479F07 | Screw, Countersunk (M2.6 × 3) | | |
| | 241 | 2-A | 84T80469F01 | Head P. C. Board | | |
| | 242 | 3-B | 07B80396F01 | Frame, Head | | |
| | 243 | 2-B | 47A80493F01 | Shaft, Head Frame | | |
| | 244 | 2-B | 43A80492F01 | Roller, Head Frame | | |
| | 245 | | 43B63198F01 | Tape, Guide | | |
| | 246 | | 43A80428F01 | Roller, Head | | |
| | 247 | 3-B | 41A63286F03 | Spring, Pinch Roller | | |
| | 248 | 2-B | 41A63286F04 | Spring, Pinch Roller | | |
| | 249 | | 41A63290F01 | Spring, Tape Guide | | |
| | 250 | | 41A80445F01 | Spring, Head | | |
| | 251 | | 03S40019G03 | Screw, F-Locks (M2 × 4) | | |
| | 252 | 3-F | 45A80386F01 | Lever, Swing | | |
| | 253 | | 49A64626F01 | Reel, Ring | | |
| | 254 | | 49A64627F01 | Reel, Cap | | |
| | 255 | | 41A64628F01 | Spring, Reel | | |
| | 256 | 4-G | 41A80450F01 | Spring, Reel Clutch | | |
| | 257 | 4-F | 03A80490F01 | Screw, Flat (M1.7 × 1.5) | | |
| | 258 | 3-F | 04S40075G23 | Washer, Polyslider (M5.2) | | |
| | 259 | 4-G | 01A80462F01 | Assy., Riv. Bracket Reel | | |
| | 260 | 3-F | 01A80463F01 | Assy., Riv. Sub Reel | | |
| | 261 | 4-E | 44A80392F01 | Gear, Clutch | | |
| | 262 | 4-F | 45A80393F01 | Lever, Clutch | | |
| | 263 | 4-F | 43A80394F01 | Bush, Clutch | | |
| | 264 | 4-F | 41A80395F01 | Spring, Clutch | | |
| | 265 | 4-G | 01V81200F63 | Assy., Flywheel Bracket | | |
| | 266 | 2-B | 45A80364F01 | Lever, RF Lock | | |
| | 267 | 2-B | 41B80444F05 | Spring | | |
| | 268 | 2-B | 01A80460F01 | Assy., Riv. Play Solenoid | | |

NOTE : The parts without part numbers are not supplied.

○ : For GT75B01A model only, ● : For GT75B01B model only, □ : For GT75B11A model only,
■ : For GT75B11C model only, Others : Common.

| Symbol No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|
| 269 | 2-F | 01T63210F05 | Assy., Flywheel | | |
| 270 | | 04S40075G05 | Washer, Polyslider (M2.1) | | |
| 272 | 4-E | 84A82646F01 | Metal Switch P. C. Board | | |
| 273 | 2-D | 84A80432F01 | Program Switch P. C. Board | | |
| □ 274 | 2-C | 01V84300F56 | Assy., GT Control P. C. Board | | |
| ○ 274 | 2-C | 01V81800F72 | Assy., GT Control P. C. Board | | |
| ● 274 | 2-C | 01V91700F39 | Assy., GT Control P. C. Board | | |
| ■ 274 | 2-C | 01V93300F91 | Assy., GT Control P. C. Board | | |
| 275 | 3-C | 03S44205G42 | Screw, Pan (M2.6 × 4) | | |
| 277 | 3-C | 45A80373F01 | Lever, Program | | |
| 278 | 3-C | 45A80375F01 | Lever, Switch | | |
| 280 | 2-F | 01T63210F06 | Assy., Flywheel | | |
| 281 | 3-D | 49A83022F01 | Pully, Idler | | |
| 282 | 2-G | 42A40969F01 | Belt | | |
| 283 | 5-D | 42A80397F01 | Belt | | |
| 284 | 2-B | 04A41345P14 | Washer, Lock (M2.1) | | |
| 285 | | 04A41345P25 | Washer, Lock (M3.1) | | |
| 286 | 4-D | 03D40014G12 | Screw, W/Washer (M2.6 × 4) | | |
| 287 | | 03S44205G07 | Screw, Pan (M2.6 × 5) | | |
| 288 | 2-C | 03S68259F06 | Screw, Bind (M2.3 × 8) | | |
| 289 | 4-E | 03S68259F03 | Screw, Pan (M2 × 7) | | |
| 292 | 4-C | 45A80387F01 | Lever, Reel Brake | | |
| 293 | 4-E | 44A63196F01 | Gear, Take Up | | |
| 294 | 2-D | 44A80382F01 | Gear, Take Up | | |
| 295 | 3-D | 44B80379F01 | Gear, Pause | | |
| 296 | 2-E | 44A80380F01 | Gear, Reverse Act | | |
| 297 | 4-D | 44A80381F01 | Gear, Reverse Idler | | |
| 298 | 4-E | 44A80383F01 | Gear, Pause Idler | | |
| 299 | 4-D | 44A80385F01 | Gear, Motor Idler | | |
| 300 | 2-E | 45B80388F01 | Lever, Trigger | | |
| 301 | 4-D | 44A80384F01 | Gear, Pulley | | |
| 302 | 4-D | 44A63197F01 | Gear, RF Idler | | |
| 303 | 4-E | 41A80447F01 | Spring, Pack | | |
| 304 | 2-E | 41A80449F01 | Spring, Program Trigger | | |
| 305 | 4-E | 04A41345P04 | Washer, Lock (M2.6) | | |

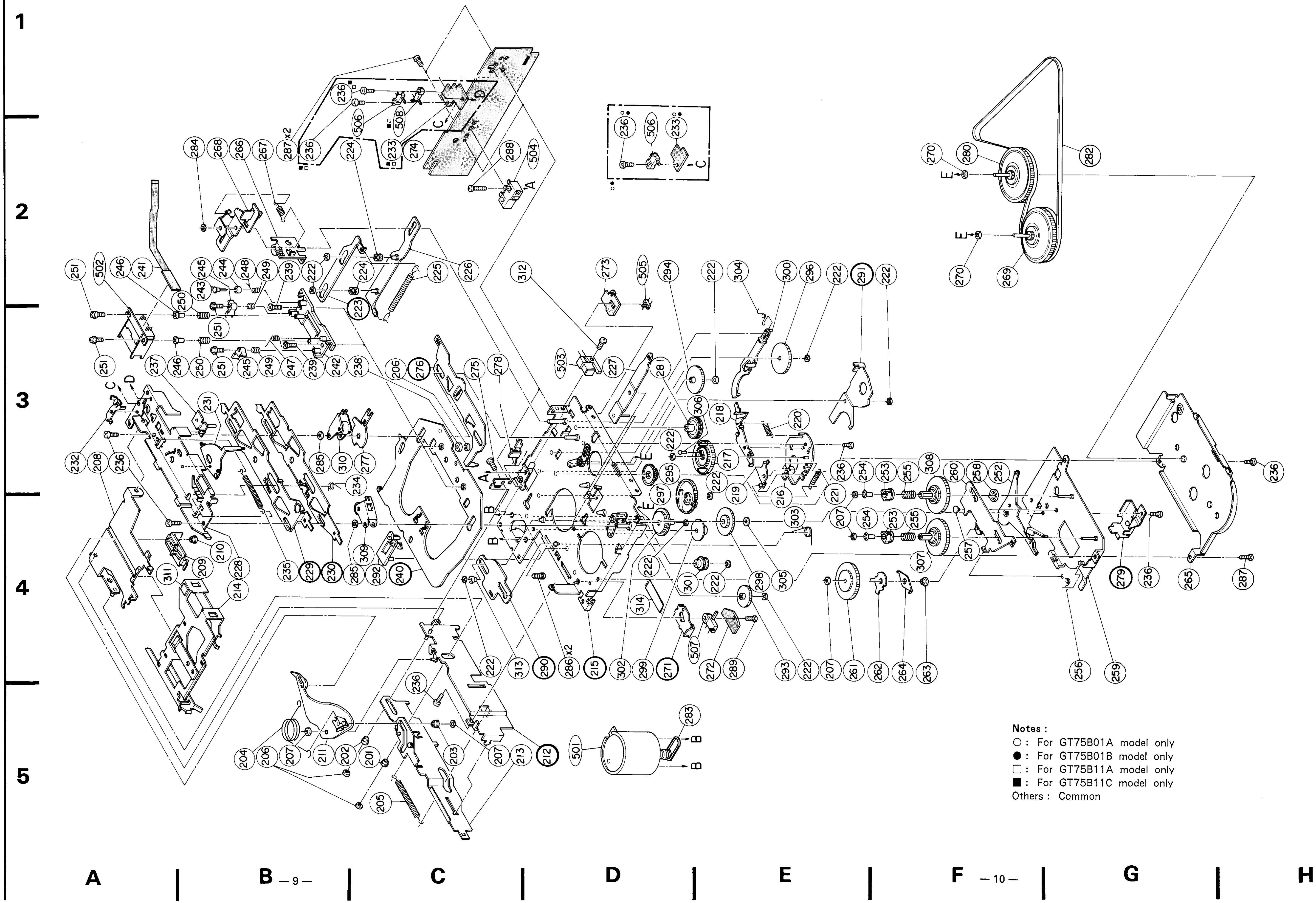
| Symbol No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|
| 306 | 3-E | 47A80423F01 | Shaft, Change Gear | | |
| 307 | 4-F | 01T80390F01 | Assy., Reel | | |
| 308 | 3-F | 01T80390F02 | Assy., Reel | | |
| 309 | 4-C | 01T80433F01 | Assy., Pinch Roller | | |
| 310 | 3-B | 01T80433F02 | Assy., Pinch Roller | | |
| 311 | 4-A | 43A90918F01 | Spacer, Polyslider | | |
| 312 | 2-D | 03S68259F09 | Screw, Pan (M2 × 6) | | |
| 313 | 4-C | 43A90769F01 | Roller, Eject Com | | |
| 314 | 4-D | 30T84002F01 | Wire, Parallel 2P | | |

## Miscellaneous

| Symbol No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|
| 501 | 5-D | 01V81200F64 | Assy., Motor | | |
| ○ 502 | 2-A | 88T50977F01 | Head, Playback | | |
| ● 502 | 2-A | 88T50977F01 | Head, Playback | | |
| □ 502 | 2-A | 88T74130F01 | Head, Playback | | |
| ■ 502 | 2-A | 88T74130F01 | Head, Playback | | |
| 503 | 3-D | 01T80451F01 | Assy., Keep Solenoid | | |
| 504 | 2-D | 40T52216F01 | Switch, Micro | | |
| 505 | 2-D | 40T63432F01 | Switch, Slide | | |
| 506 | | 40T71025F01 | Switch, Detector | | |
| 507 | 4-E | 40T71025F03 | Switch, Detector | | |
| □ 508 | 2-C | 40T71025F03 | Switch, Detector | | |
| ■ 508 | 2-C | 40T71025F03 | Switch, Detector | | |

NOTE : The parts without part numbers are not supplied.

## Exploded View (1/3)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**Notes :**

○ : For GT75B01A model only

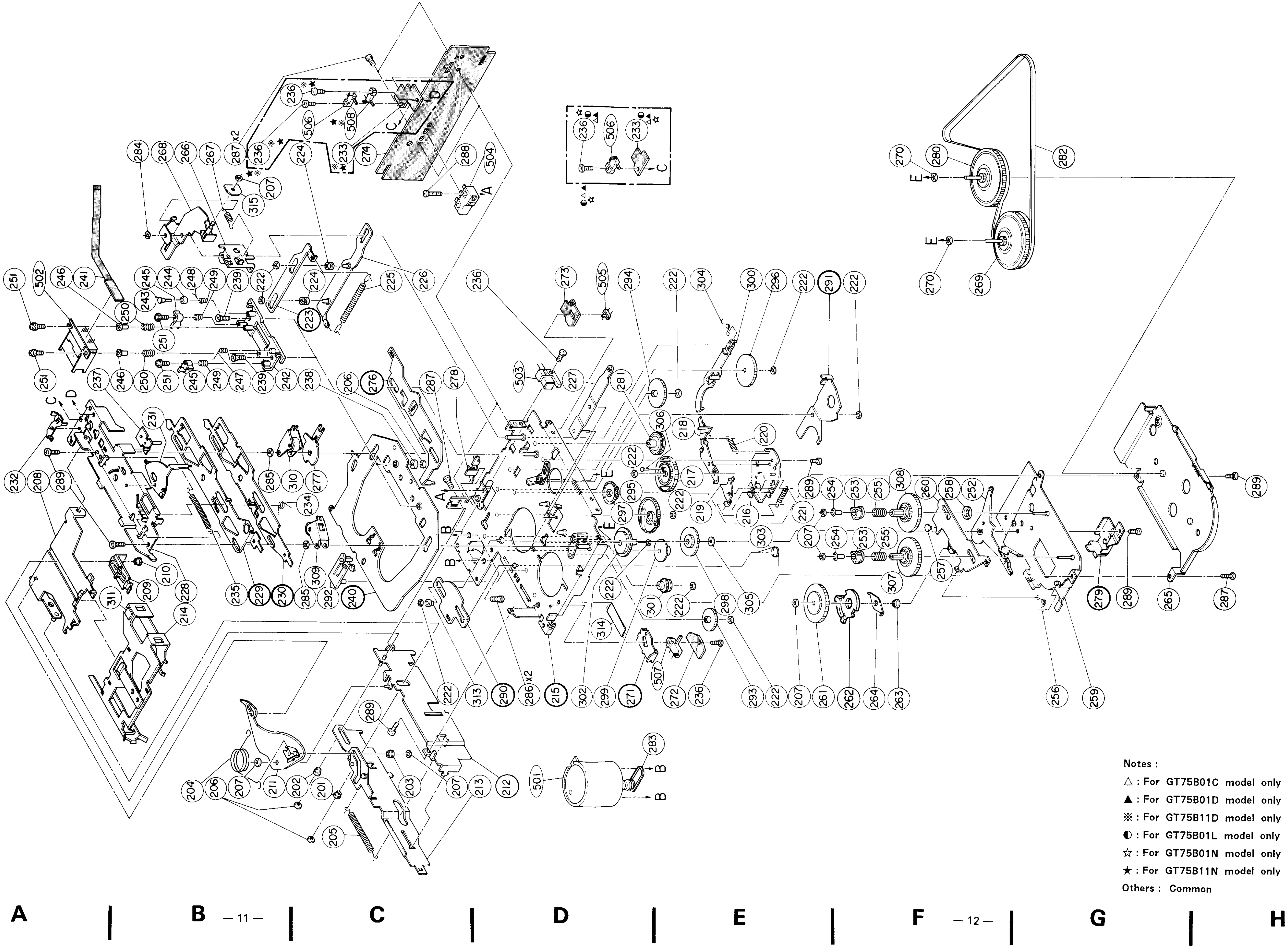
● : For GT75B01B model only

□ : For GT75B11A model only

■ : For GT75B11C model only

Others : Common

# Exploded View (2/3)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Notes :

△ : For GT75B01C model only

▲ : For GT75B01D model only

※ : For GT75B11D model only

◐ : For GT75B01L model only

☆ : For GT75B01N model only

★ : For GT75B11N model only

Others : Common

# Parts List (2/3)

△ : For GT75B01C model only, ▲ : For GT75B01D model only,
※ : For GT75B11D model only, ◐ : For GT75B01L model only,
☆ : For GT75B01N model only, ★ : For GT75B11N model only, Others : Common.

| Symbol No. | | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 201 | 5-C | 43A63281F01 | Roller, Plate Base | | |
| | 202 | 5-C | 43A63282F01 | Roller, Eject Arm | | |
| | 203 | 5-C | 43A80430F01 | Roller, Eject Arm (B) | | |
| | 204 | 5-B | 41A80448F01 | Spring, Turn Eject | | |
| | 205 | 5-C | 41B80444F04 | Spring | | |
| | 206 | | 04A41345P15 | Washer, Lock (M1.2) | | |
| | 207 | | 04A41345P02 | Washer, Lock (M1.7) | | |
| | 208 | 3-A | 01A82275F03 | Assy., Riv. Plate Base | | |
| | 209 | 4-B | 45B10376W01 | Slider | | |
| | 210 | 4-B | 47A63278F01 | Shaft, Slider | | |
| | 211 | 5-B | 01A80457F01 | Assy., Riv. Eject Arm | | |
| | 213 | 5-D | 01A80983F01 | Assy., Riv. Eject Lever | | |
| | 214 | 4-B | 01A63494F01 | Assy., Riv. Cassette Holder | | |
| | 216 | 4-E | 01A80461F01 | Assy., Riv. Reverse Frame | | |
| | 217 | 3-E | 44B80378F01 | Gear, Change | | |
| | 218 | 3-E | 45A80366F01 | Lever, Reverse Lock | | |
| | 219 | 4-E | 45A80367F01 | Lever, Reverse Act | | |
| | 220 | 3-F | 41B80444F02 | Spring | | |
| | 221 | 4-E | 41B80444F03 | Spring | | |
| | 222 | | 04A41345P01 | Washer, Lock (M1.2) | | |
| | 224 | | 43A80431F01 | Roller, Sub Head Base | | |
| | 225 | 2-C | 41B80444F01 | Spring | | |
| | 226 | 2-C | 01A80454F01 | Assy., Riv. Head Base Act | | |
| | 227 | 3-D | 01A80458F01 | Assy., Riv. RF Arm | | |
| | 228 | 4-B | 07B80356F01 | Bracket, RF Frame | | |
| | 231 | 3-B | 01A84687F01 | Assy., Riv. RF Link | | |
| | 232 | 3-A | 45A80361F01 | Lever, Mute | | |
| ※ | 233 | 2-C | 84A84245F01 | Mute Switch P. C. Board | | |
| ▲ | 233 | 2-D | 84A82645F01 | Mute Switch P. C. Board | | |
| △ | 233 | 2-D | 84A82645F01 | Mute Switch P. C. Board | | |
| ◐ | 233 | 2-D | 84A82645F01 | Mute Switch P. C. Board | | |
| ☆ | 233 | 2-D | 84A82645F01 | Mute Switch P. C. Board | | |
| ★ | 233 | 2-C | 84A84245F01 | Mute Switch P. C. Board | | |
| | 234 | 3-C | 41A80446F01 | Spring, RF Lever | | |
| | 235 | 4-B | 41B80444F06 | Spring | | |
| | 236 | | 03S10042W02 | Screw, Pan (M2 × 7) | | |
| | 237 | 3-A | 01A80459F01 | Assy., Riv. Program Push Lever | | |
| | 238 | 3-C | 43A80427F01 | Roller, Head Base (C) | | |
| | 239 | | 03S56479F07 | Screw, Countersunk (M2.6 × 3) | | |
| | 241 | 2-A | 84T10306W01 | Head P. C. Board | | |
| | 242 | 3-B | 07B80396F01 | Frame, Head | | |
| | 243 | 2-B | 47A80493F01 | Shaft, Head Frame | | |
| | 244 | 2-B | 43A80492F01 | Roller, Head Frame | | |
| | 245 | | 43B63198F01 | Tape, Guide | | |
| | 246 | | 43A80428F01 | Roller, Head | | |
| | 247 | 3-B | 41A63286F03 | Spring, Pinch Roller | | |
| | 248 | 2-B | 41A63286F04 | Spring, Pinch Roller | | |
| | 249 | | 41A63290F01 | Spring, Tape Guide | | |
| | 250 | | 41A80445F01 | Spring, Head | | |
| | 251 | | 03S40019G03 | Screw, F-Locks (M2 × 4) | | |
| | 252 | 3-F | 45A80386F01 | Lever, Swing | | |
| | 253 | | 49A64626F01 | Reel, Ring | | |
| | 254 | | 49A64627F01 | Reel, Cap | | |
| | 255 | | 41A64628F01 | Spring, Reel | | |
| | 256 | 4-G | 41A80450F01 | Spring, Reel Clutch | | |
| | 257 | 4-F | 03A80490F01 | Screw, Flat (M1.7 × 1.5) | | |
| | 258 | 3-F | 04S40075G23 | Washer, Polyslider (M5.2) | | |
| | 259 | 4-G | 01A80462F01 | Assy., Riv. Bracket Reel | | |
| | 260 | 3-F | 01A80463F01 | Assy., Riv. Sub Reel | | |
| | 261 | 4-E | 44A80392F01 | Gear, Clutch | | |
| | 262 | 5-F | 45A10318W01 | Lever, Clutch | | |
| | 263 | 4-F | 43A80394F01 | Bush, Clutch | | |
| | 264 | 4-F | 41A80395F01 | Spring, Clutch | | |
| | 265 | 4-G | 01V81200F63 | Assy., Flywheel Bracket | | |
| | 266 | 2-B | 45A80364F01 | Lever, RF Lock | | |
| | 267 | 2-B | 41B80444F05 | Spring | | |
| | 268 | 2-B | 01A94367F01 | Assy., Riv. Play Solenoid | | |
| | 269 | 2-F | 01T63210F05 | Assy., Flywheel | | |

NOTE : The parts without part numbers are not supplied.

△ : For GT75B01C model only, ▲ : For GT75B01D model only, ※ : For GT75B11D model only,
◐ : For GT75B01L model only, ☆ : For GT75B01N model only, ★ : For GT75B11N model only,
Others : Common.

| Symbol | No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 270 | | 04S40075G05 | Washer, Polyslider (M2.1) | | |
| | 272 | 4-E | 84A82646F01 | Metal Switch P. C. Board | | |
| | 273 | 2-D | 84A80432F01 | Program Switch P. C. Board | | |
| △ | 274 | 2-C | 01V11300W54 | Assy., GT Control P. C. Board | | |
| ☆ | 274 | 2-C | 01V14300W94 | Assy., GT Control P. C. Board | | |
| ▲ | 274 | 2-C | 01V11400W38 | Assy., GT Control P. C. Board | | |
| ※ | 274 | 2-C | 01V11300W53 | Assy., GT Control P. C. Board | | |
| ◐ | 274 | 2-C | 01V14300W94 | Assy., GT Control P. C. Board | | |
| ★ | 274 | 2-C | 01V11300W53 | Assy., GT Control P. C. Board | | |
| | 277 | 3-C | 45A80373F01 | Lever, Program | | |
| | 278 | 3-C | 45A80375F01 | Lever, Switch | | |
| | 280 | 2-F | 01T63210F06 | Assy., Flywheel | | |
| | 281 | 3-D | 49A83022F01 | Pully, Idler | | |
| | 282 | 2-G | 42A40969F01 | Belt | | |
| | 283 | 5-E | 42A80397F01 | Belt | | |
| | 284 | 2-B | 04A41345P14 | Washer, Lock (M2.1) | | |
| | 285 | | 04A41345P25 | Washer, Lock (M3.1) | | |
| | 286 | 4-D | 03D40014G12 | Screw, W/Washer (M2.6 × 4) | | |
| | 287 | | 03S44205G07 | Screw, Pan (M2.6 × 5) | | |
| | 288 | 2-C | 03S68259F06 | Screw, Bind (M2.3 × 8) | | |
| | 289 | | 03S10042W11 | Screw, Pan (M1.7 × 2.5) | | |
| | 292 | 4-C | 45A80387F01 | Lever, Reel Brake | | |
| | 293 | 4-E | 44A63196F01 | Gear, Take Up | | |
| | 294 | 2-D | 44A80382F01 | Gear, Take Up | | |
| | 295 | 3-D | 44B80379F01 | Gear, Pause | | |
| | 296 | 2-E | 44A80380F01 | Gear, Reverse Act | | |
| | 297 | 4-D | 44A80381F01 | Gear, Reverse Idler | | |
| | 298 | 4-E | 44A80383F01 | Gear, Pause Idler | | |
| | 299 | 4-D | 44A80385F01 | Gear, Motor Idler | | |
| | 300 | 2-E | 45B80388F01 | Lever, Trigger | | |
| | 301 | 4-E | 44A80384F01 | Gear, Pulley | | |
| | 302 | 4-D | 44A63197F01 | Gear, RF Idler | | |
| | 303 | 4-E | 41A80447F01 | Spring, Pack | | |
| | 304 | 2-E | 41A80449F01 | Spring, Program Trigger | | |
| | 305 | 4-E | 04A41345P04 | Washer, Lock (M2.6) | | |

NOTE : The parts without part numbers are not supplied.

| Symbol | No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 306 | 3-E | 47A80423F01 | Shaft, Change Gear | | |
| | 307 | 4-F | 01T80390F01 | Assy., Reel | | |
| | 308 | 3-F | 01T80390F02 | Assy., Reel | | |
| | 309 | 4-C | 01T80433F01 | Assy., Pinch Roller | | |
| | 310 | 3-C | 01T80433F02 | Assy., Pinch Roller | | |
| | 311 | 4-B | 43A90918F01 | Spacer, Polyslider | | |
| | 313 | 4-D | 43A90769F01 | Roller, Eject Com | | |
| | 314 | 4-D | 30T84002F01 | Wire, Parallel 2P | | |
| | 315 | 2-B | 76T95077F01 | 1Chip | | |
| | 316 | | 03S44205G42 | Screw, Pan (M2.6 × 4) | | |

### Miscellaneous

| Symbol | No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| △ | 501 | 5-D | 01V11700W05 | Assy., Motor | | |
| ▲ | 501 | 5-D | 01V93800F53 | Assy., Motor | | |
| ※ | 501 | 5-D | 01V11700W05 | Assy., Motor | | |
| ◐ | 501 | 5-D | 01V11700W05 | Assy., Motor | | |
| ☆ | 501 | 5-D | 01V11700W05 | Assy., Motor | | |
| ★ | 501 | 5-D | 01V11700W05 | Assy., Motor | | |
| △ | 502 | 2-A | 88T50977F02 | Head, Playback | | |
| ▲ | 502 | 2-A | 88T50977F02 | Head, Playback | | |
| ※ | 502 | 2-A | 88T74130F02 | Head, Playback | | |
| ◐ | 502 | 2-A | 88T50977F02 | Head, Playback | | |
| ☆ | 502 | 2-A | 88T50997F02 | Head, Playback | | |
| ★ | 502 | 2-A | 88T74130F02 | Head, Playback | | |
| | 503 | 3-D | 01T80451F01 | Assy., Keep Solenoid | | |
| | 504 | 1-D | 40T52216F01 | Switch, Micro | | |
| | 505 | 2-D | 40T63432F01 | Switch, Slide | | |
| | 506 | | 40T71025F01 | Switch, Detect | | |
| | 507 | 4-E | 40T71025F03 | Switch, Detect | | |
| ※ | 508 | 1-C | 40T71025F03 | Switch, Detect | | |
| ★ | 508 | 1-C | 40T71025F03 | Switch, Detect | | |

# Parts List (3/3)

◓ : For GT75L020 model only,
◨ : For GT75L02N model only,
◆ : For GT75L220 model only,
⬖ : For GT75L120 model only,
◭ : For GT75L12N model only,
Others : Common.

| Symbol | No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 201 | 5-C | 43A63281F01 | Roller, Plate Base | | |
| | 203 | 4-C | 43A12105W01 | Roller, Eject Arm (B) | | |
| | 204 | 5-B | 41A12411W01 | Spring, Turn Eject | | |
| | 205 | 5-C | 41B80444F04 | Spring | | |
| | 206 | 5-B | 04A41345P15 | Washer, Lock (M1.2) | | |
| | 207 | | 04A41345P02 | Washer, Lock (M1.7) | | |
| | 208 | 3-A | 01A82275F03 | Assy., Rivet Plate Base | | |
| | 209 | 4-B | 45B10376W01 | Slider | | |
| | 210 | | 47A63278F01 | Shaft, Slider | | |
| | 211 | 4-C | 01A12405W01 | Assy., Rivet Eject Arm | | |
| | 213 | | 43A12087W01 | Roller, Pack Guide | | |
| | 214 | | 03S40011G47 | Screw, Pan (M2 × 7) | | |
| | 216 | 4-E | 01A12378W01 | Assy., Rivet Reverse | | |
| | 217 | 3-E | 44B80378F01 | Gear, Change | | |
| | 218 | 3-E | 45A80366F01 | Lever, Reverse Lock | | |
| | 219 | 3-E | 45A80367F01 | Lever, Reverse ACT | | |
| | 220 | 3-E | 41B50444F02 | Spring | | |
| | 221 | 3-E | 41B50444F03 | Spring | | |
| | 222 | | 04A41345P01 | Washer, Lock (M1.2) | | |
| | 224 | 4-E | 41A80447F01 | Spring, Pack | | |
| | 225 | 2-C | 41B80444F01 | Spring | | |
| | 226 | 2-C | 01A12406W01 | Assy., Rivet Head Base ACT | | |
| | 227 | 3-D | 01A80458F02 | Assy., Rivet RF Arm | | |
| | 228 | 4-B | 07B80356F02 | Bracket RF Frame | | |
| | 231 | 4-B | 01A84687F01 | Assy., Rivet Link | | |
| | 232 | 2-B | 76T95077F01 | Chip | | |
| | 233 | 5-D | 45B12076W01 | Lever, Eject | | |
| | 234 | 3-C | 41A80446F01 | Spring, RF Lever | | |
| | 235 | 4-B | 41B80444F06 | Spring | | |
| | 236 | 4-E | 44A63196F01 | Gear, Take Up | | |
| | 237 | 3-A | 01A80459F01 | Assy., Rivet Program Push | | |
| | 238 | 4-B | 07C63151F02 | Holder, Cassette | | |
| | 241 | 2-A | 84T15796W01 | Head P. C. Board | | |
| | 242 | 1-B | 07B12806W01 | Frame, Head | | |
| | 243 | 2-B | 47A80493F01 | Shaft, Head Frame | | |
| | 244 | 2-B | 43A80492F01 | Roller, Head Frame | | |
| | 247 | 2-B | 41A63286F03 | Spring, Pinch Roller | | |
| | 248 | 3-B | 41A63286F04 | Spring, Pinch Roller | | |
| | 249 | 2-E | 44A80382F01 | Gear, Take Up | | |
| | 250 | 1-B | 41A13824W01 | Spring, Head | | |
| | 251 | 2-A | 03S40019G03 | Screw, F−Lock (M2 × 4) | | |
| | 252 | 3-F | 45A80386F01 | Lever, Swing | | |
| | 253 | 2-B | 45B12084W01 | Lever, Play Solenoid | | |
| | 254 | 4-E | 30T84002F01 | Wire, Metal Switch | | |
| | 255 | 4-G | 01V16100W82 | Assy., Flywheel Bracket | | |
| | 256 | | 41A80450F01 | Spring, Reel Clutch | | |
| | 257 | 3-H | 03A63557F02 | Screw, Pan (M1.7 × 2.5) | | |
| ◓ | 258 | 2-C | 01V14500W06 | Assy., GT Control P. C. Board | | |
| ◨ | 258 | 2-C | 01V14500W06 | Assy., GT Control P. C. Board | | |
| ⬖ | 258 | 2-C | 01V14500W48 | Assy., GT Control P. C. Board | | |
| ◆ | 258 | 2-C | 01V16800W37 | Assy., GT Control P. C. Board | | |
| ◭ | 258 | 2-C | 01V14500W48 | Assy., GT Control P. C. Board | | |
| | 259 | | 01T94245F01 | Assy., Reel | | |
| | 260 | 4-G | 01A12403W01 | Assy., Rivet Bracket Reel | | |
| | 261 | 4-E | 04A41345P04 | Washer, Lock (M2.6) | | |
| | 262 | 4-E | 44A80392F01 | Gear, Clutch | | |
| | 263 | 4-F | 45A10318W01 | Lever, Clutch | | |
| | 264 | 4-F | 43A80394F01 | Bush, Clutch | | |
| | 265 | 4-F | 41A80395F01 | Spring, Clutch | | |
| | 266 | 2-E | 41A80449F01 | Spring, Program Trigger | | |
| | 267 | 4-D | 44A63197F01 | Gear, RF Idler | | |
| | 268 | 2-B | 45A80364F01 | Lever, RF Lock | | |
| | 269 | 2-B | 41B80444F05 | Spring | | |
| | 270 | 2-E | 45B80388F01 | Lever, Trigger | | |
| | 271 | | 01T63210F05 | Assy., Flywheel | | |
| | 272 | | 04S40075G05 | Washer Polyslider (M2.1) | | |
| | 274 | 4-E | 84A82646F01 | Metal Switch P. C. Board | | |
| | 275 | 4-E | 44A12088W01 | Gear, Motor Idler | | |
| | 276 | 4-E | 44A80383F01 | Gear, Pause Idler | | |
| | 277 | 3-D | 44A80381F01 | Gear, Reverse Idler | | |

NOTE : The parts without part numbers are not supplied.

◓ : For GT75L020 model only, ⬗ : For GT75L120 model only, ◨ : For GT75L02N model only,
◭ : For GT75L12N model only, ◆ : For GT75L220 model only, Others : Common.

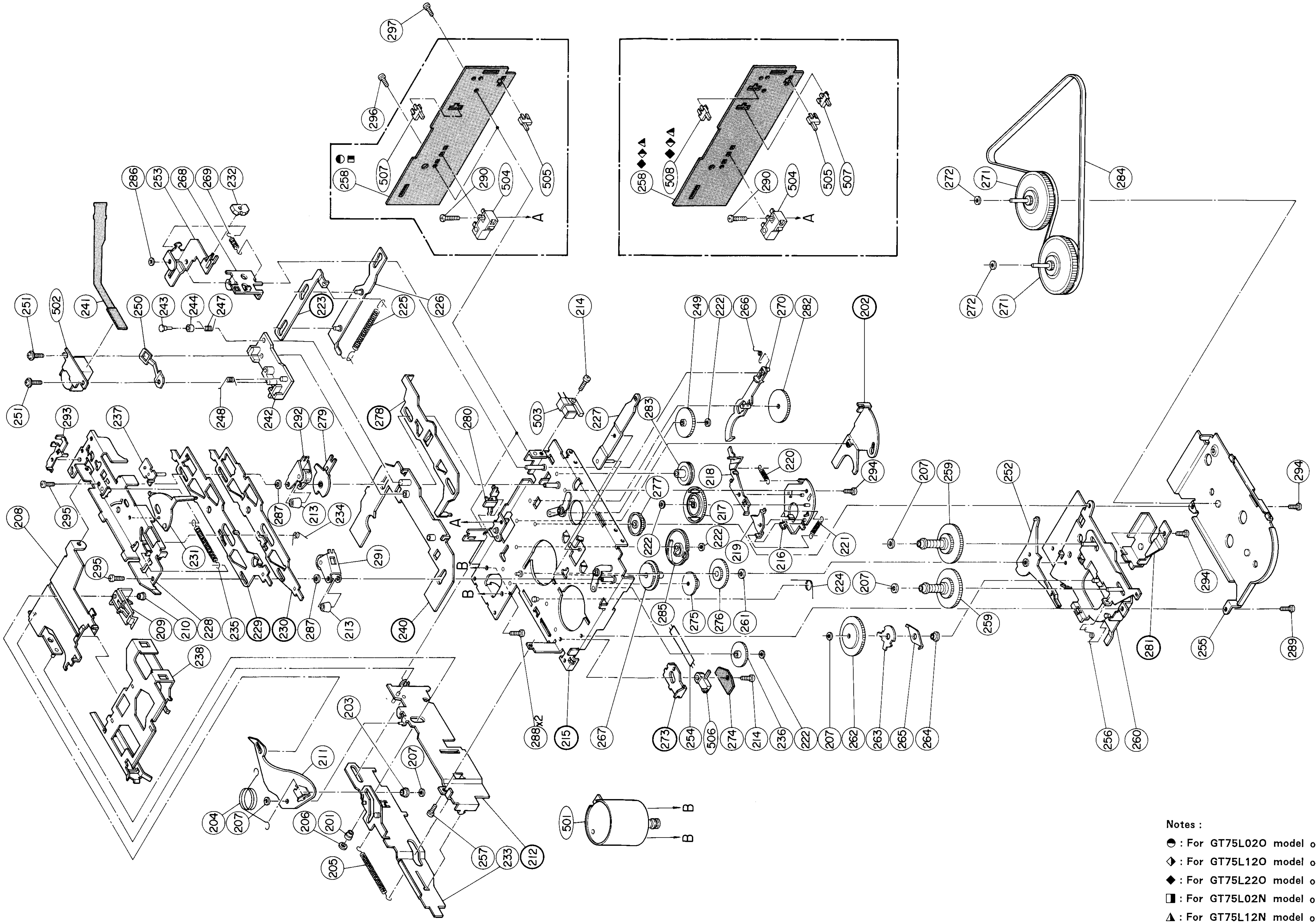
| Symbol | No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 279 | 3-C | 45A80373F01 | Lever, Program | | |
| | 280 | 3-C | 45A80375F01 | Lever, Switch | | |
| | 282 | 2-E | 44A80380F01 | Gear, Reverse ACT | | |
| ⬗ | 283 | 3-D | 49A94719F01 | Pully, Idler | | |
| ◓ | 283 | 3-D | 49A94719F01 | Pully, Idler | | |
| ◨ | 283 | 3-D | 49A83022F01 | Pully, Idler | | |
| ◭ | 283 | 3-D | 49A83022F01 | Pully, Idler | | |
| ◆ | 283 | 3-D | 49A83022F01 | Pulley, Idler | | |
| | 284 | | 42A40969F01 | Belt | | |
| | 285 | 4-D | 44B80379F01 | Gear, Pause | | |
| | 286 | 2-B | 04A41345P14 | Washer, Lock (M2.1) | | |
| | 287 | | 04A41345P25 | Washer, Lock (M3.1) | | |
| | 288 | 4-D | 03D40014G67 | Screw, W/Washer (M2.6 × 3.5) | | |
| | 289 | 2-B | 03S44205G30 | Screw, Pan (M2.6 × 7) | | |
| | 290 | | 03S68259F06 | Screw, Bind (M2.3 × 8) | | |
| | 291 | 4-C | 01T15776W01 | Assy., Pinch Roller | | |
| | 292 | 3-B | 01T15776W02 | Assy., Pinch Roller | | |
| | 293 | 3-B | 45A12083W01 | Lever, Switch Mute | | |
| | 294 | | 03S43997P64 | Screw, Pan (M1.7 × 3) | | |
| | 295 | | 03S56479F27 | Screw, Pan (M1.7 × 3) | | |
| | 296 | 1-C | 03S44205G48 | Screw, Pan (M2.6 × 5) | | |
| ⬗ | 297 | | 03S44205G30 | Screw, Pan (M2.6 × 4) | | |
| ◓ | 297 | | 03S44205G30 | Screw, Pan (M2.6 × 4) | | |
| ◨ | 297 | | 03S44205G30 | Screw, Pan (M2.6 × 4) | | |
| ◭ | 297 | | 03S44205G30 | Screw, Pan (M2.6 × 4) | | |
| ◆ | 297 | | 03S44205G48 | Screw, Pan (M2.6 × 5) | | |

Miscellaneous

| Symbol | No. | Index | Part No. | Description | | |
|---|---|---|---|---|---|---|
| | 501 | 5-D | 01V14500W41 | Assy., Motor | | |
| ◓ | 502 | 2-A | 88T15795W01 | Head, Playback | | |
| ⬗ | 502 | 2-A | 88T16375W01 | Head, Playback | | |
| ◨ | 502 | 2-A | 88T15795W01 | Head, Playback | | |
| ◭ | 502 | 2-A | 88T16375W01 | Head, Playback | | |
| ◆ | 502 | 2-A | 88T16153W01 | Head, Playback | | |
| | 503 | | 01T80451F01 | Assy., Keep Solenoid | | |
| | 504 | 2-E | 40T52216F01 | Switch, Micro | | |
| | 505 | 2-E | 40T71025F03 | Switch, Detector | | |
| | 506 | | 40T15222W01 | Switch, Detector | | |
| | 507 | | 40T15222W01 | Switch, Detector | | |
| ◆ | 508 | 2-D | 40T15222W01 | Switch, Detector | | |
| ⬗ | 508 | 2-D | 40T15222W01 | Switch, Detector | | |
| ◭ | 508 | 2-D | 40T15222W01 | Switch, Detector | | |

NOTE : The parts without part numbers are not supplied.

# Exploded View (3/3)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Notes :

◓ : For GT75L02O model only

⬖ : For GT75L12O model only

◆ : For GT75L22O model only

◨ : For GT75L02N model only

◭ : For GT75L12N model only

Others : Common